

Julius Blum & Co., Inc.

532-540 West 22nd Street

New York, N. Y.



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CATALOG No. 4

(ISSUE 1931)

JULIUS BLUM & CO., Inc.

Offices and Warehouse

532-540 West 22nd Street

NEW YORK, N. Y.



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JULIUS BLUM & CO., Inc.

Cable Address: JULBLUM, NEW YORK

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General Information

Rolled Steel (Wrought Iron) Mouldings are especially adapted for the construction of store fronts, ways, elevator enclosures and cabs, railings, bank screens, elevator saddles and thresholds, sash and sky work, doors and door jambs, fences, marquises, partitions, furniture, lighting fixtures and all other ornamental iron work.

Mouldings are rolled true and smooth with sharp lines, of best wrought iron or soft steel. They are capable of being bent, formed and forged. Mouldings are carried in stock in bars of about 18 to 20 feet in length.

Soft steel mouldings are cleaner in appearance and are cheaper than cast iron. They are free from blemishes and sand holes, which is important when polishing or plating is desired. They are fireproof, cannot break, and are lighter in weight than cast iron, which means saving in freight and trucking charges.

**We will roll to order any section, no matter how difficult.
Inquiries are solicited for difficult rolling propositions.**

Approximate weights are stated in pounds per lineal foot, measurements in inches. Due to technical difficulties in manufacturing, weights or measurements, while believed by us to be correctly shown, are not guaranteed.

All quotations and price lists are subject to change without notice. All sales are made subject to strikes, accidents and other contingencies beyond our control.

Orders for special material are not subject to cancellation without our consent in writing.

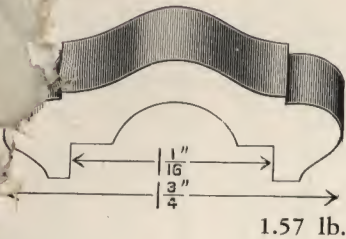
Orders for materials from warehouse stock are generally shipped within 24 hours after receipt of order.

Our responsibility for shortages or damaged goods ceases as soon as we have obtained a clear receipt from the carrier. We do not insure shipments, unless specifically instructed to do so in each instance.

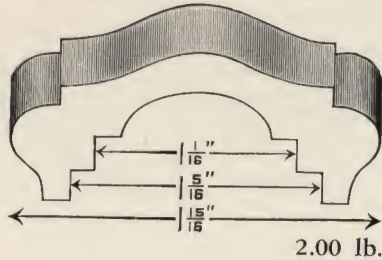
All materials are inspected before shipment, but, even with the greatest care, it is not always possible to detect imperfections. We will replace, if possible, with perfect material any merchandise which may prove defective, but under no circumstances will we be responsible for any damages beyond this. No charges for labor or expenses will be allowed, the measure of damages being the price of the defective article. All claims must be made within ten days from receipt of merchandise.

Rolled Steel Handrails

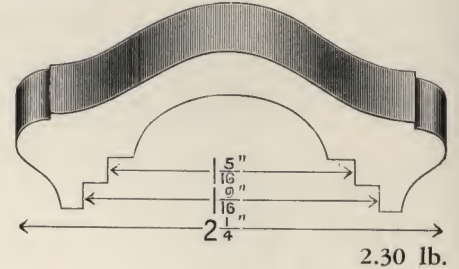
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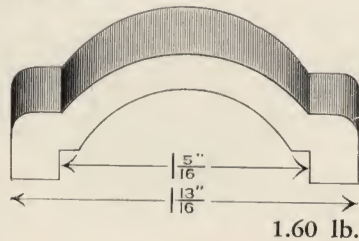
No. 4428



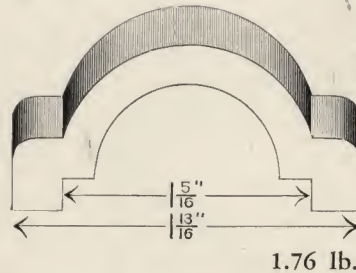
No. 4441



No. 4426



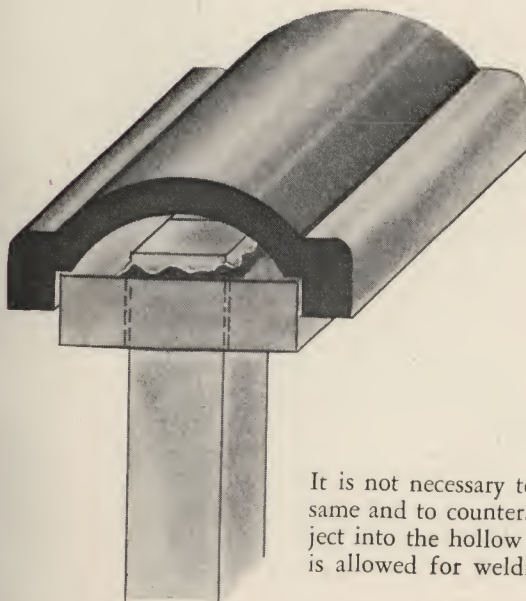
No. 4427



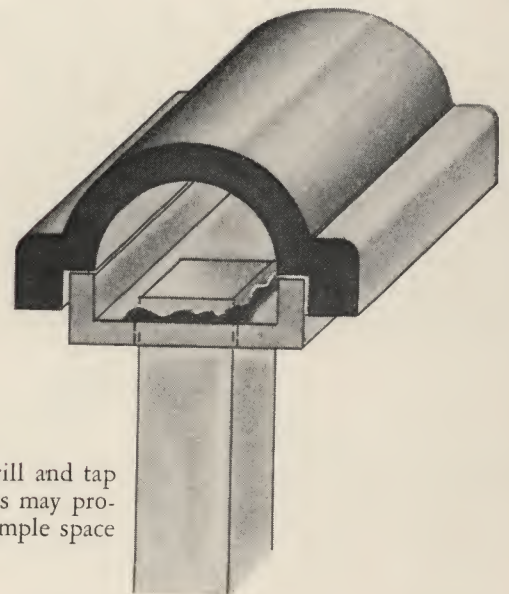
These mouldings have been created to meet the demand for Half Round or Half Oval Handrails, rolled *in one piece*.

When handrails are built up from flats and half rounds, or flats and half ovals, rust is likely to form between the members, causing bulging and unsightly appearance.

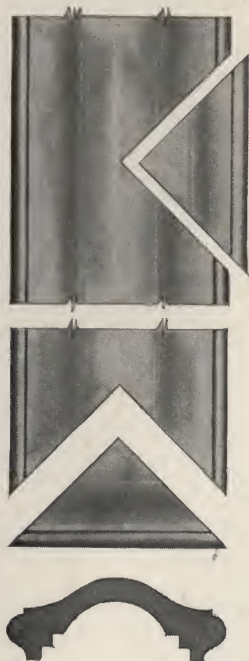
Handrails No. 4426 and No. 4427 being rolled of soft steel, are easily curved and bent. They are clean in appearance. The labor of assembling two or more sections is eliminated.



Showing method of constructing railings by using Handrails Nos. 4426 and 4427 with flats or channels on top of baluster bars.



It is not necessary to cut the upright bars exact, to drill and tap same and to countersink the screws. The baluster bars may project into the hollow part underneath the handrail. Ample space is allowed for welding.



Method of Forming Square End Finish on Handrail

A triangular piece is cut out from the end of Handrail. Into this opening a piece of same size and shape, cut from the side of a waste piece off the same bar is inserted.

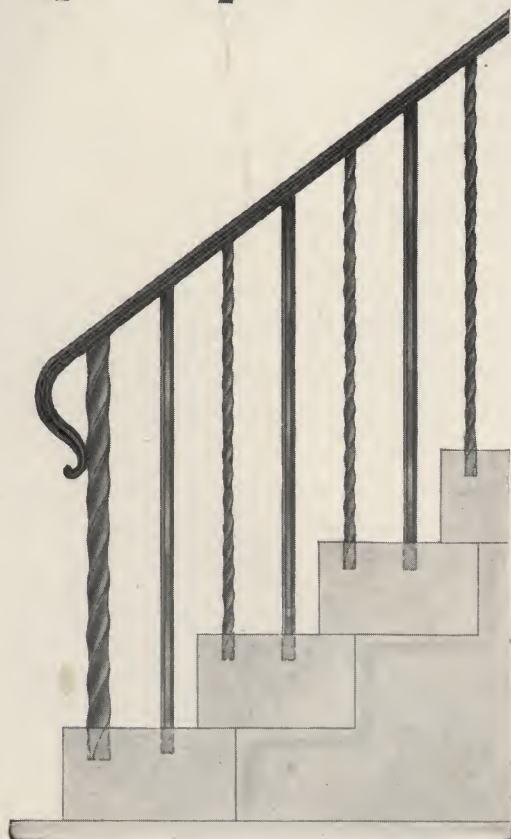


RAILING

Specification: Rolled Steel, Bronze or Aluminum Handrail with Square End Piece, formed as shown on left.

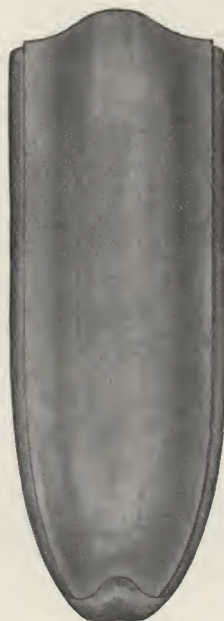
Baluster Bars consist of twisted square tubing alternating with square bars. Cast Iron Collars, Type "F" on bottom, Type "G" on top, Type "H" in center.

Rolled Steel Mouldings applied to bottom of stringer, underneath tread and to riser panel.



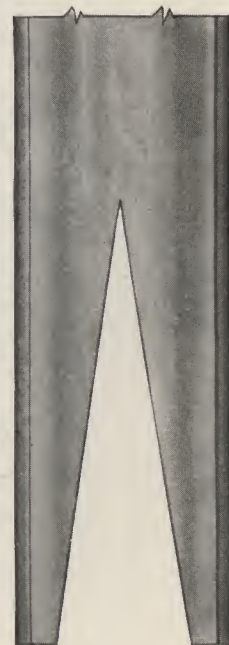
RAILING

Specification: Rolled Steel, Bronze or Aluminum Handrail with Lamb's Tongue Type End Piece, formed as shown on right. Baluster Bars consist of twisted square steel tubing alternating with hexagon steel tubes, or rolled steel baluster bars as shown on Page No. 19 set into the steps.



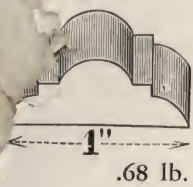
Method of Forming Lamb's Tongue Type End Piece

A triangular piece is cut out from end of Handrail. The two legs are brought together and rolled up as shown.

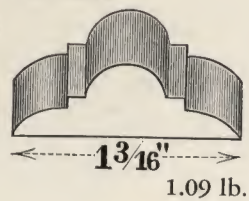


Rolled Steel Handrails

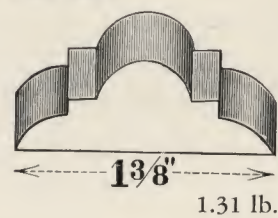
4414



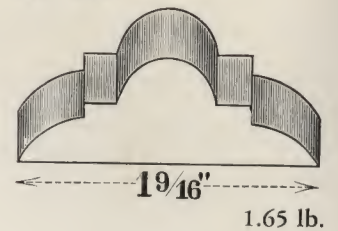
No. 4411



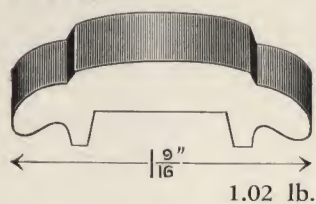
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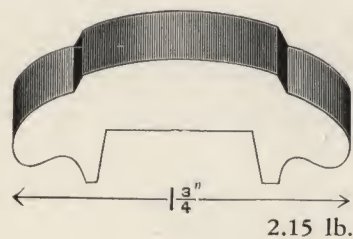
No. 4413



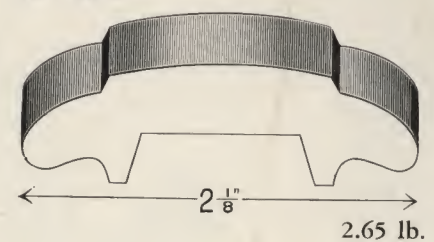
No. 4400



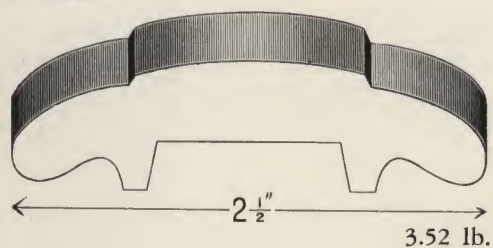
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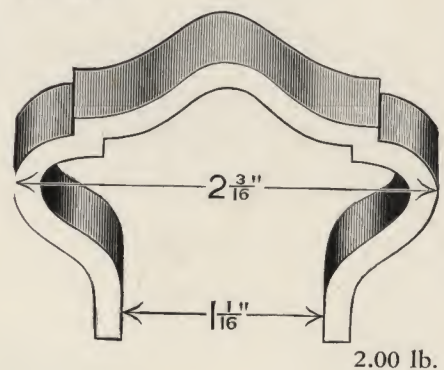
No. 4430



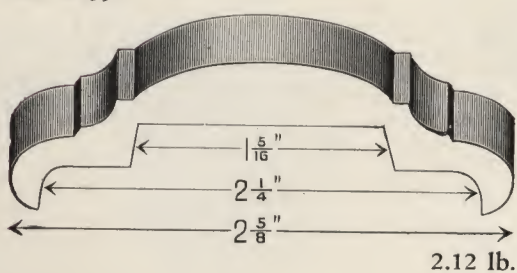
No. 4440



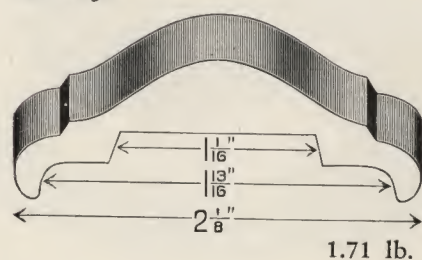
No. 4434



No. 4439



No. 4438

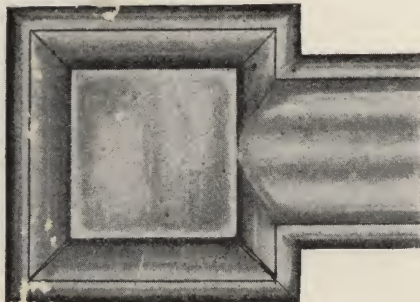




The fittings shown below are carried in stock in BRONZE and ALUMINUM. These fittings are polished and match in size our ARCHITECTURAL BRONZE HANDRAILS Nos. 4530, 4531, 4532, 4533, 4534, ALUMINUM HANDRAILS Nos. 6930, 6931, 6934.

END PIECE

Terminal



When ordering please state:

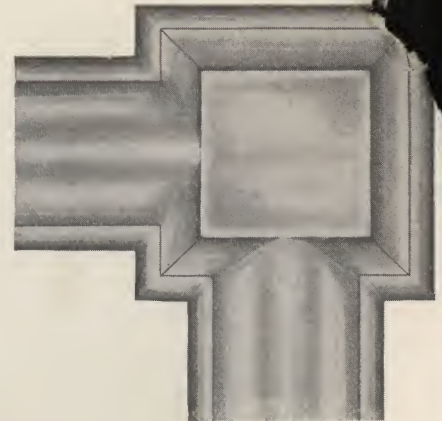
MATERIAL (Bronze or Aluminum)

TYPE

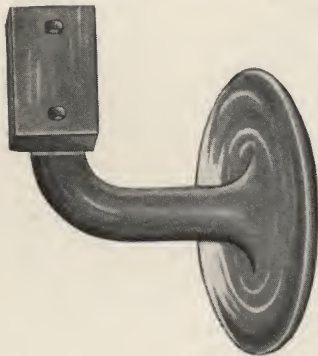
SIZE OF HANDRAIL (Number)

CORNER PIECE

L Shape

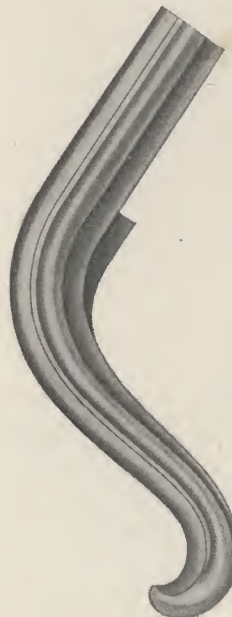


HANDRAIL BRACKET



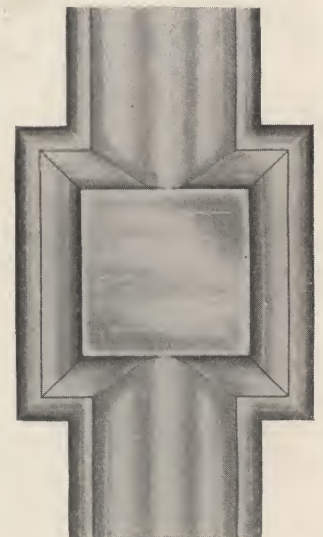
VERTICAL END PIECE

Lambs Tongue



CENTER PIECE

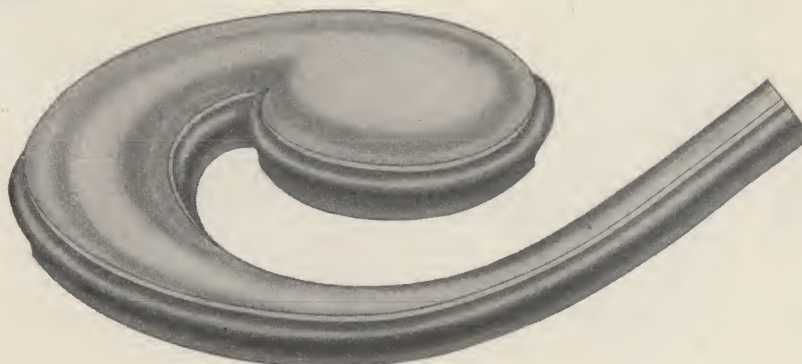
T Shape



LATERAL SCROLL END PIECE

Right or Left

The ends of the Lateral Scroll fittings are curved slightly upwards. Bends of various pitch and measurement may be formed by shaping the Handrail to the desired curve and pitch before connecting the Lateral Scroll End Piece.



VERTICAL END PIECE

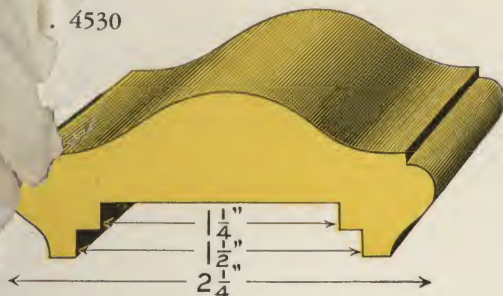
Volute



Architectural Bronze Handrails

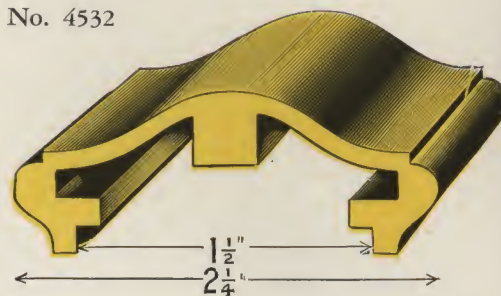
Carried in stock in random lengths up to about 20 ft. long. We also furnish same cut to specified lengths.

No. 4530



This Handrail can be fitted over 1 1/2" or 1 1/4" Top Bar (or smaller)

No. 4532

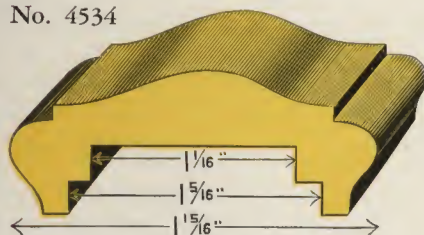


Architectural Bronze Handrails may be curved or bent easily.

Surface is free from imperfections. Buffing only is required to produce a highly polished finish.

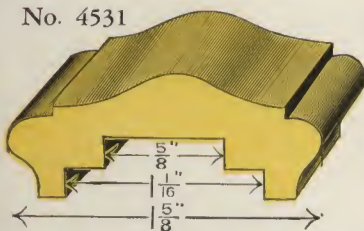
Architectural Bronze Handrails No. 4530 and No. 4532 have the same outside lines. No. 4532 should be used for straight runs only. No. 4530 when curving or bending is required.

No. 4534



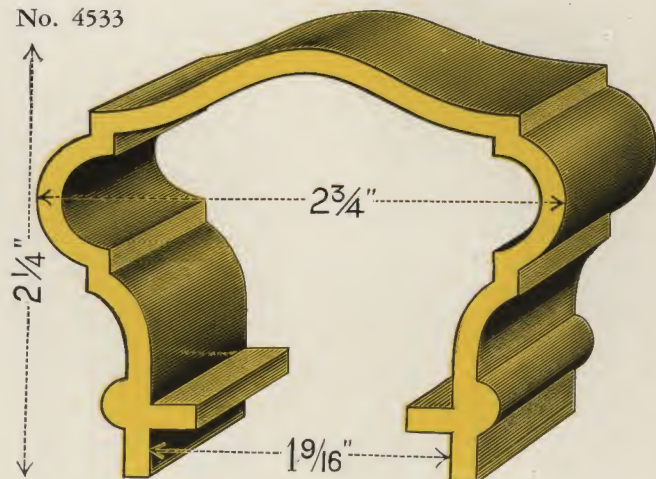
This Handrail can be fitted over 1 1/4" or 1" Top Bar (or smaller)

No. 4531



This Handrail can be fitted over 1" Top Bar (or smaller)

No. 4533



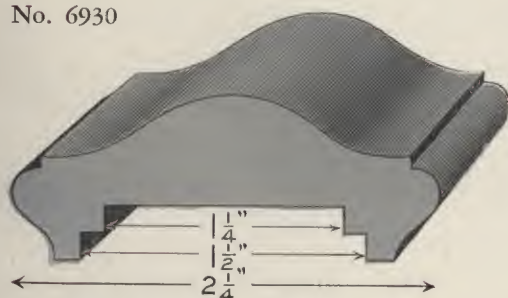
Architectural Bronze Channels



1/2" x 1/2" x 3/32"	1 1/2" x 5/8" x 1/8"
1" x 1/2" x 1/8"	2" x 3/4" x 1/8"
1 1/4" x 5/8" x 1/8"	2 1/4" x 7/8" x 1/8"

These Channels are of same color as Architectural Bronze Handrails.

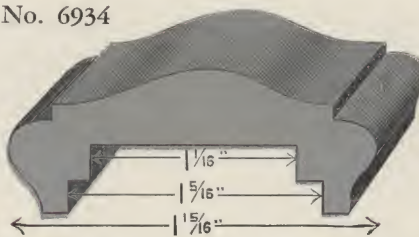
No. 6930



This Handrail can be fitted over 1 1/2" or 1 1/4" Top Bar (or smaller)

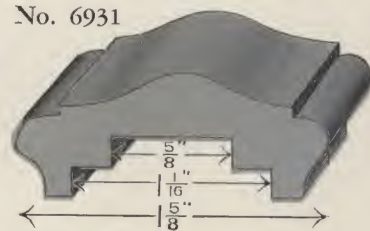
Aluminum Handrails

No. 6934



This Handrail can be fitted over 1 1/4" or 1" Top Bar (or smaller)

No. 6931



This Handrail can be fitted over 1" Top Bar (or smaller)

ALUMINUM HANDRAILS are carried in stock in bars up to 20 ft. long. We also furnish same cut to specified lengths. Easy to curve or bend. Surface is free from imperfections. Buffing only is required to produce a highly polished finish.

We carry in stock: ALUMINUM MACHINE SCREWS countersunk flat head.

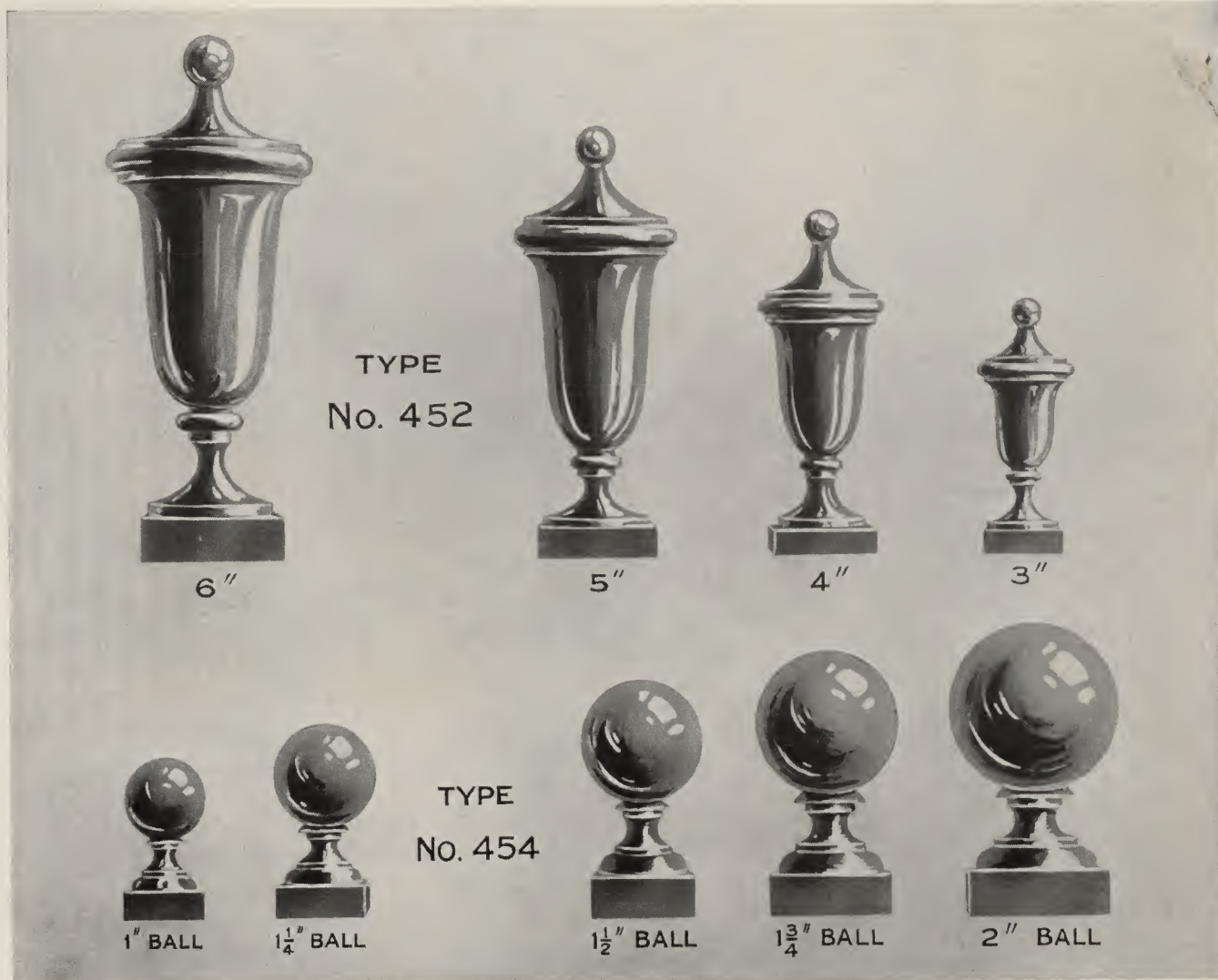
1/4" No. 20.....1" long

1/4" No. 20.....1 1/4" long

1/4" No. 20.....1 1/2" long

Forged Wrought Iron Finials

Carried in stock *only* with SQUARE BASE



Illustrations are shown ONE-HALF actual size.

Forged Wrought Iron Finials

Do not break or crack.

Carried in stock with
SQUARE BASE only.

Polished Bronze Finials

Bronze Finials are a finished product, highly polished. Carried in stock
with *ROUND OR SQUARE BASE*.

(See Page No. 11)

For BALCONIES RAILINGS BANK SCREENS WINDOW GUARDS
FIRE ESCAPES POSTS PARTITIONS LAMPS ANDIRONS, Etc.

Polished Bronze Finials

Carried in stock with ROUND OR SQUARE BASE



TYPE
No. 402

6"



5"



4"



3"

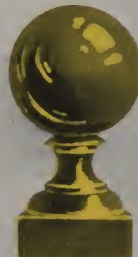


1" BALL



1 1/4" BALL

TYPE
No. 404



1 1/2" BALL



1 3/4" BALL



2" BALL



TYPE
No. 403

6"



5"



4"



3"

Illustrations are shown ONE-HALF actual size.



RAILING

Specification: Rolled Steel, Bronze or Aluminum Handrail, curved as shown. *Newel Post:* Twisted Square Steel Tubing. Polished Bronze or Forged Iron Finial. Hollow Steel Spindles with steel or brass collars used for baluster bars. Rolled Steel Mouldings applied to stair stringer, underneath treads and to riser panel.

Hollow Tapered Steel Spindles can be used advantageously for ornamental iron work, such as:

Balusters, Grilles, Balcony Railings, Doors,
Bank Work, Furniture, Lamps, Partitions,
Table Legs, Drapery Rods, Window Guards,
Awning Rods, Ventilator Openings, etc., etc.

On account of their **EXTREMELY LOW COST**, **HOLLOW STEEL SPINDLES** can be used for work at commercial prices.

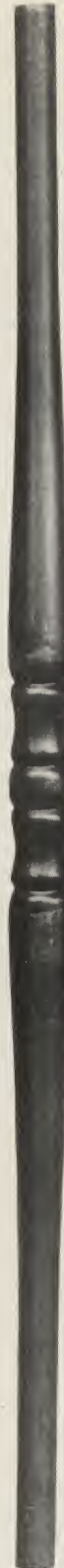
For high class work, we recommend forged spindles as shown on Page No. 13.

HOLLOW STEEL SPINDLES may be easily polished and plated. They are strong, but light in weight.

Hollow Tapered Steel Spindles



No. 300
1 1/4" in center
tapering to
3/4" on ends



No. 310
1" in center
tapering to
5/8" on ends



No. 320
3/4" in center
tapering to
3/8" on ends

Nos. 300 and 320 carried in stock in 3 ft. lengths.
No. 310 carried in stock in 3 and 5 ft lengths.

No. 325
1/2" round at
ends

No. 326
3/8" round at
ends

No. 327
1/2" round at
ends

No. 328
1/2" round at
ends



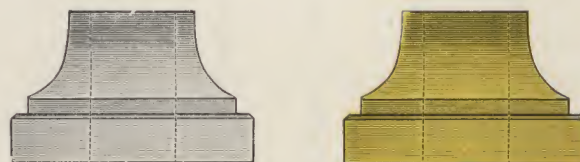
Forged Spindles

These spindles are forged from SOLID stock [not hollow].

Carried in stock in three-foot lengths. Other lengths can be furnished from mill.

Forged spindles may be used for the construction of stair and balcony railings, window guards, grilles, doors, awning rods, gates, partitions, store fronts, transoms, table legs, lamps, etc.

Round collars with round holes, to fit over the ends of the spindles, are carried in stock in steel and brass.



Carried in stock with 3/8",
7/16" and 1/2" round holes.

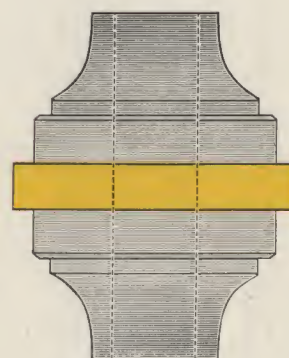
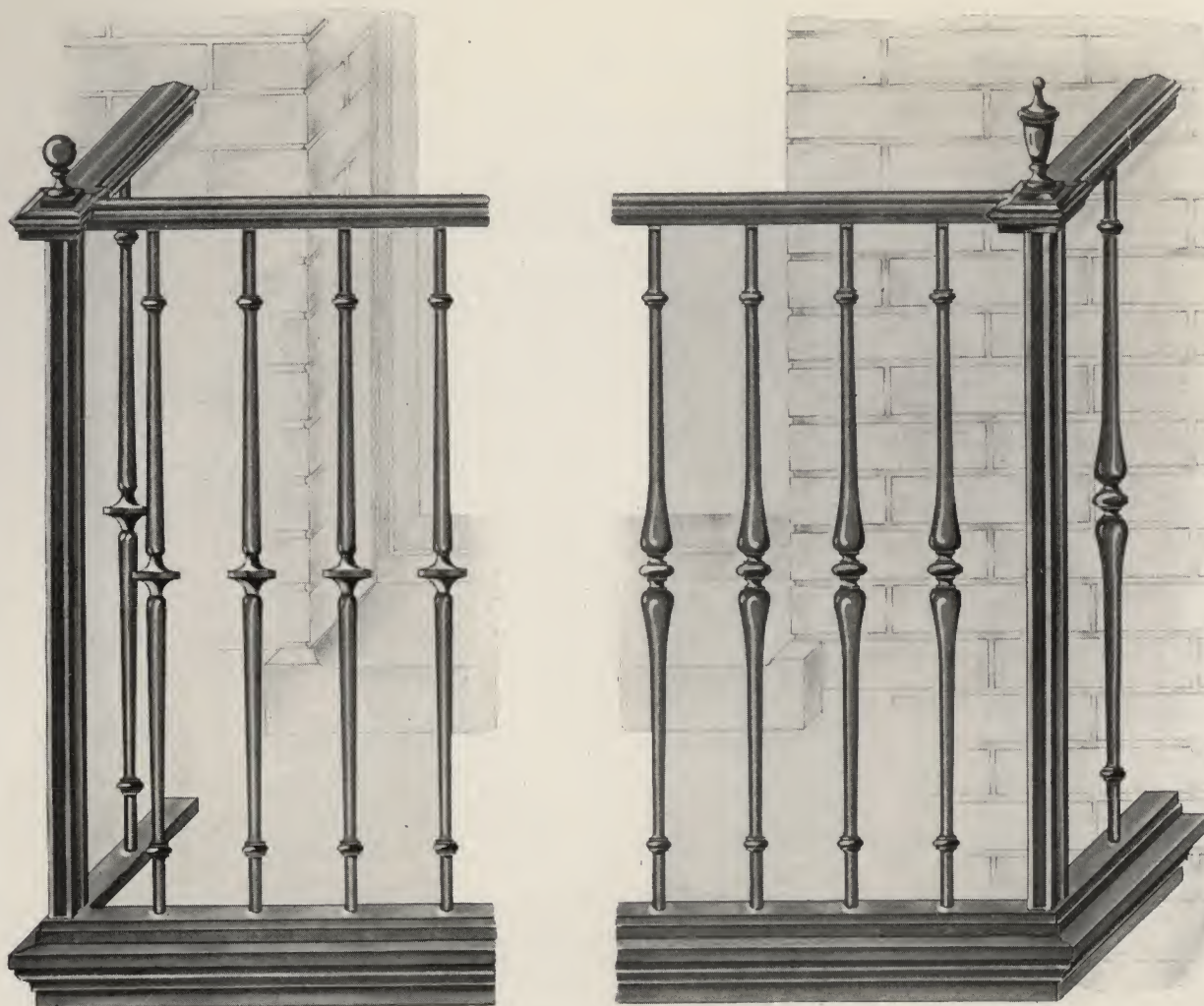


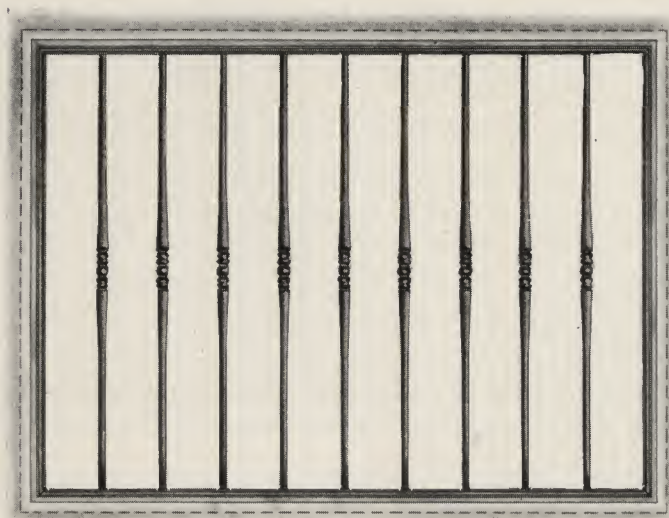
Illustration shows how Round Collars may also be used as center collars for 3/8", 7/16" or 1/2" Round Bars. By inserting a disk of metal of a contrasting color between two collars, beautiful effects may be achieved.

Illustrations are ONE-QUARTER actual size.



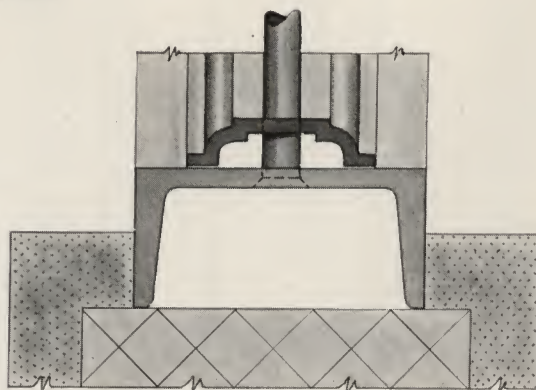
BALCONY RAILINGS

Specification: Rolled Steel or Bronze or Aluminum Handrail. Polished Bronze or Forged Iron Finials on corners. *Balusters:* Forged (solid) Spindle No. 327 (on left) and No. 325 (on right). *Corner Posts:* Rolled Steel Bannister Bar No. 4186. Moulding applied to platform frame.

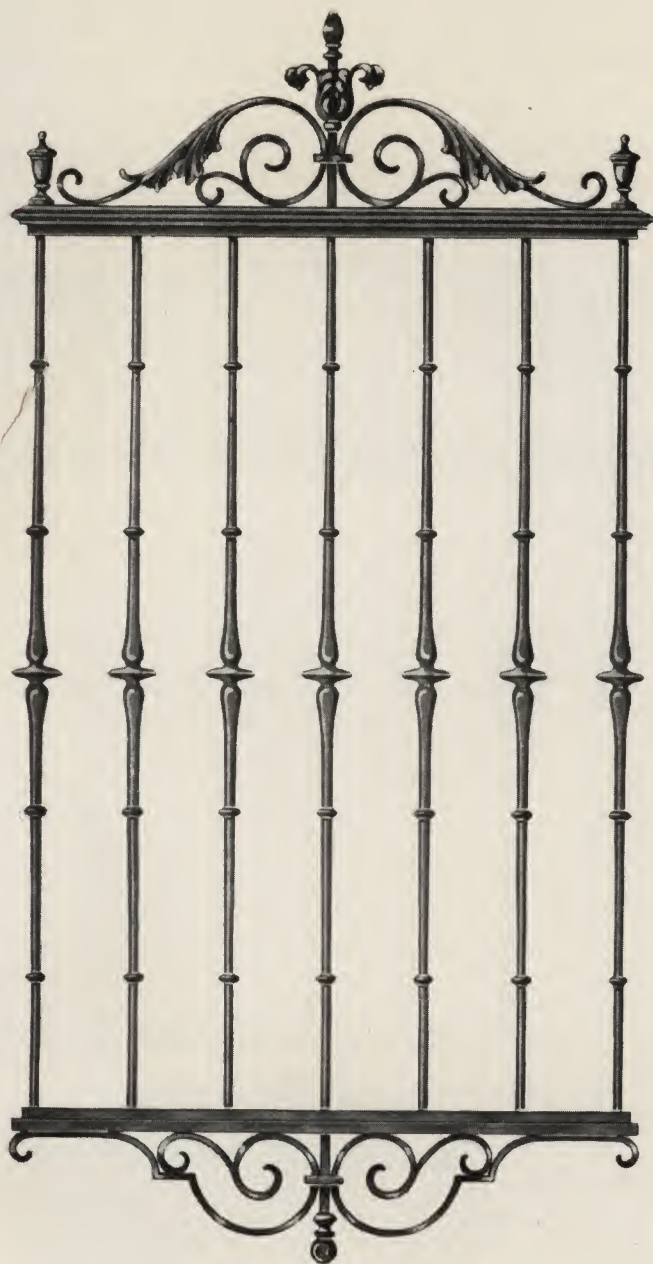


VENTILATOR GRILLE

Specification: Channel frame with Rolled Steel Moulding No. 4423. Hollow or Forged Tapered Steel Spindles welded into frame.



Sectional Detail shown ONE-HALF actual size.

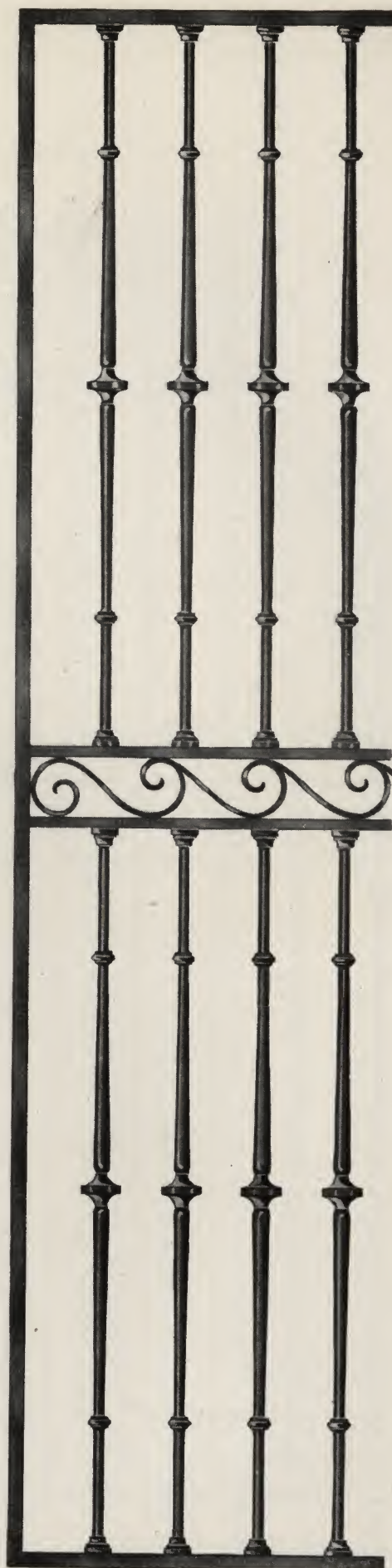


WINDOW GUARD (Above)

Specification: Forged (solid) Spindle No. 326. *Frame:* Cross bars trimmed with rolled steel mouldings. *Scrolls:* Forged from flat bars. *Ornaments:* Pressed Iron Husk and Leaves. *Finials* (at corners): Polished Bronze or Forged Iron Urns. (In top center): Forged Picket No. 207; (in bottom center): Forged Picket No. 59.

GRILLE (On Right)

Specification: *Frame:* Rectangular Steel Tubing or Flat Bars. *Scrolls:* Forged from flat bars. *Balusters:* Forged (solid) Spindle No. 327, with steel or brass collars top and bottom.

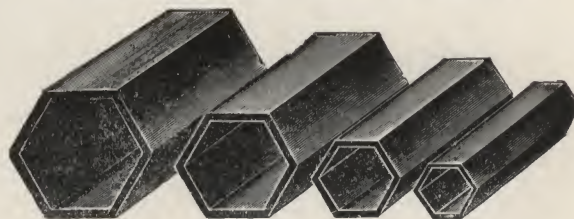


Twisted Square Steel Tubing



$\frac{1}{2}$ " x $\frac{1}{2}$ " x 20 gauge
 $\frac{5}{8}$ " x $\frac{5}{8}$ " x 20 gauge
 $\frac{3}{4}$ " x $\frac{3}{4}$ " x 20 gauge
 $\frac{7}{8}$ " x $\frac{7}{8}$ " x 20 gauge
1" x 1" x 20 gauge
 $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x 20 gauge
 $1\frac{1}{2}$ " x $1\frac{1}{2}$ " x 18 gauge
2" x 2" x 18 gauge

HEXAGON STEEL TUBING



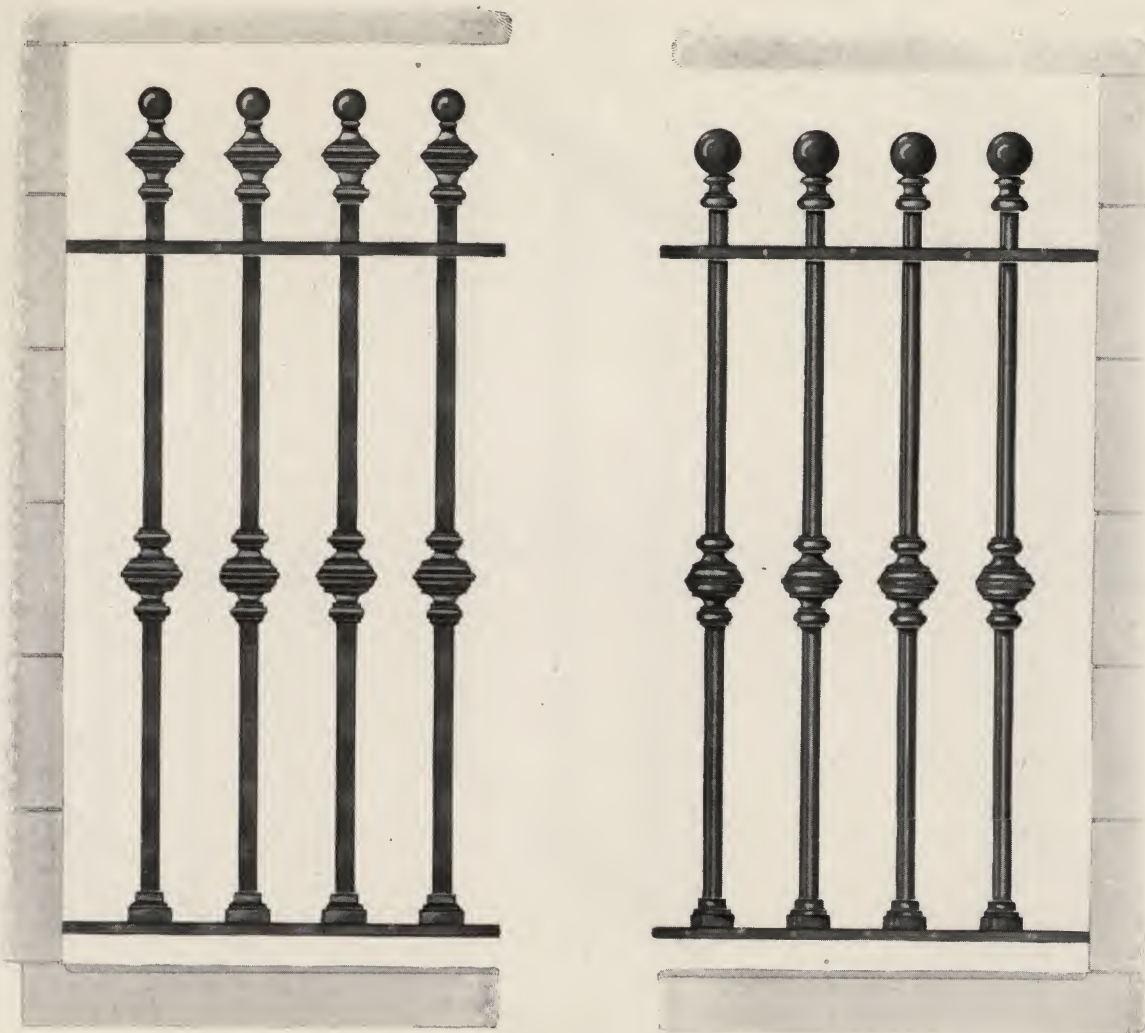
(Measurements are taken across flat sides)

$\frac{5}{8}$ " x 20 gauge
 $\frac{3}{4}$ " x 20 gauge
 $\frac{7}{8}$ " x 20 gauge
 $1\frac{1}{16}$ " x 20 gauge

GATE

Specification:

Frame: flat bars forged at ends. *Scrolls:* forged from flat bars. Forged Ball used for separator. Forged Spindle (solid) No. 326.

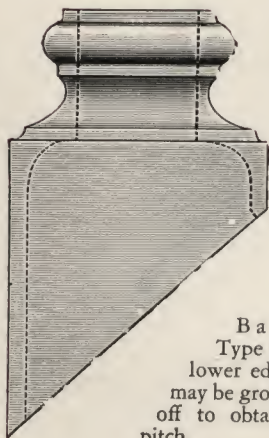


WINDOW GUARDS

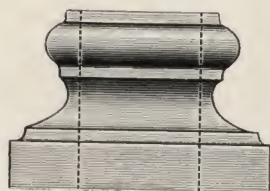
Specification: Frame: Flat Bars. Spindles: Square or Round Bars with Forged Pickets No. 87 or No. 88 in center. Cast Iron Collars Type "E" on bottom. Forged Pickets No. 86 or No. 59 on top.

CAST IRON BALUSTER COLLARS and BASES

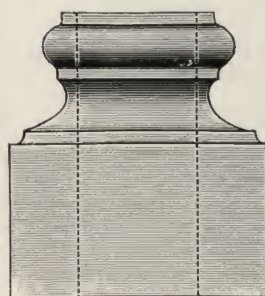
TYPE G



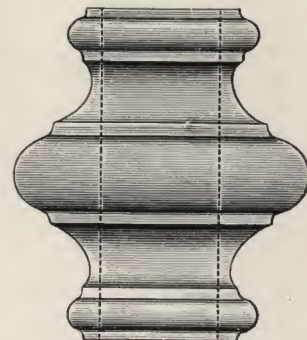
TYPE E



TYPE F



TYPE H

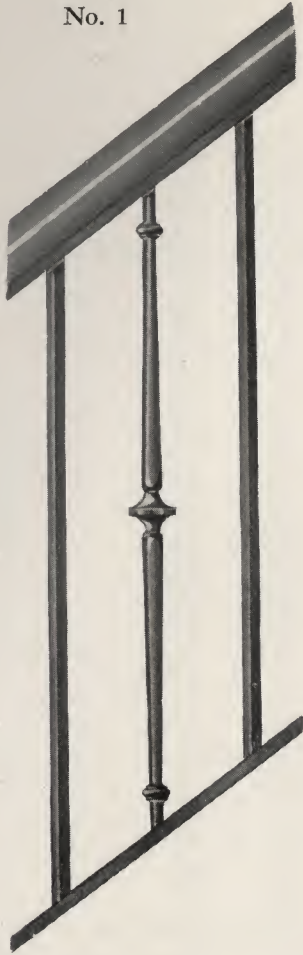


Base Collar
Type G has thin
lower edges which
may be ground or cut
off to obtain proper
pitch.

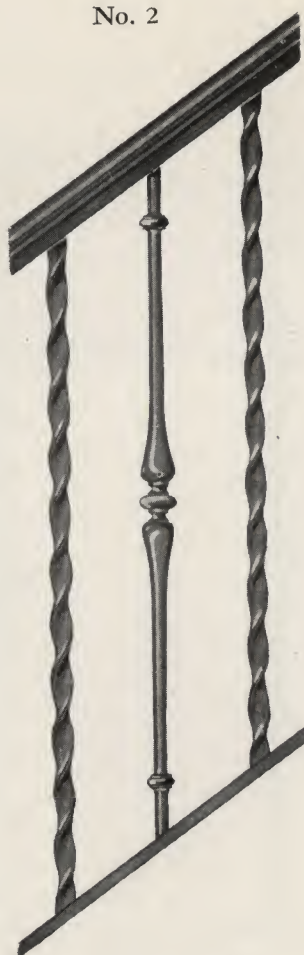
CAST IRON BALUSTER COLLARS AND BASES Types "E", "F", "G", "H" are carried in stock with $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ " (clear) square holes.

Round Collars with round holes are shown on Page No. 13

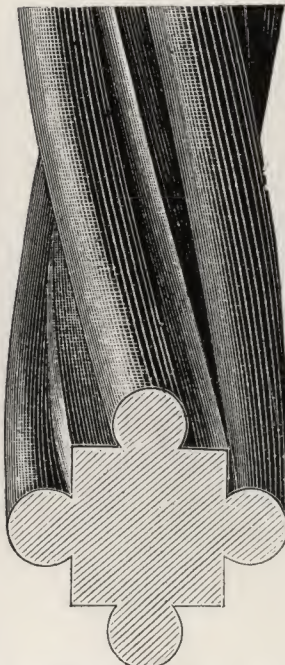
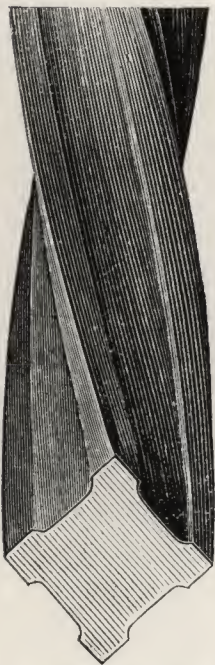
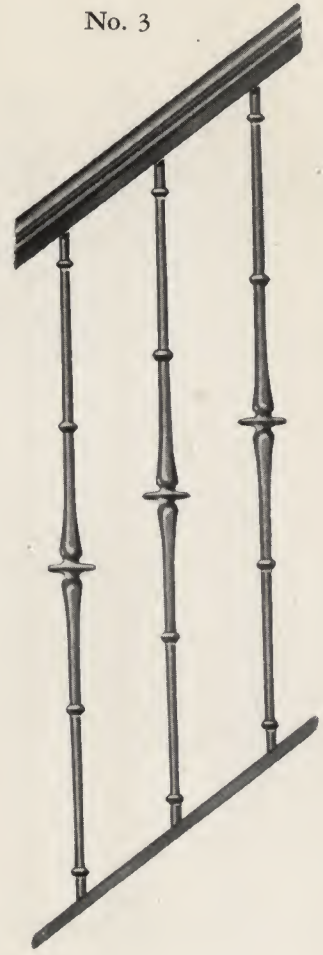
No. 1



No. 2



No. 3



RAILINGS OR PANELS

Specification: Rolled Steel or Bronze or Aluminum Handrails—

No. 1. Forged (solid) Spindle No. 327. Rolled Steel Baluster Bar No. 4181, set on Bias.

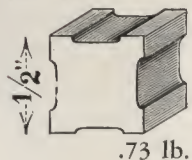
No. 2. Forged (solid) Spindle No. 325. Twisted Square Steel Tubing.

No. 3. Forged (solid) Spindle No. 326.

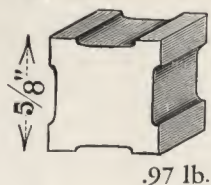
Rolled Steel Baluster Bars, shown on Page No. 19, may be used for construction of Railings, Gates, Starting Posts, Fences, Window Guards, Corner Posts, Grilles, etc. Excellent results may be achieved by twisting the bars, as illustrated, or by combining same with Forged Spindles, Hexagon Tubing or Twisted Tubing. Baluster Bars may be hand-hammered and polished to produce highly artistic results. They may also be used to good advantage for work in the modernistic manner.

Rolled Steel Baluster Bars

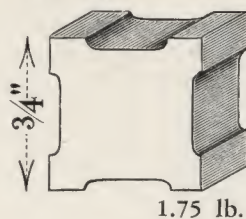
No. 4180



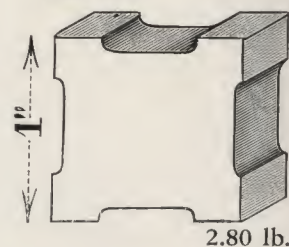
No. 4181



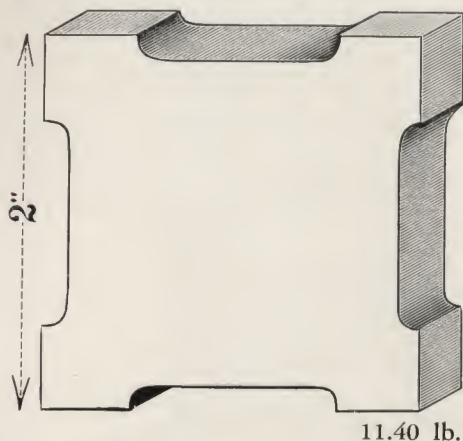
No. 4182



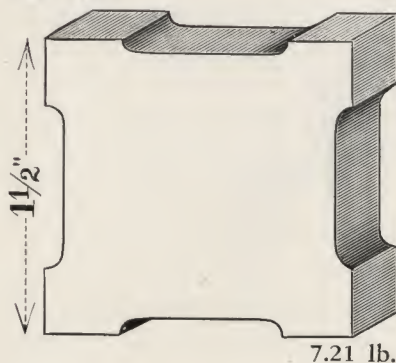
No. 4183



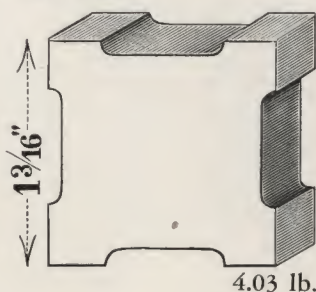
No. 4186



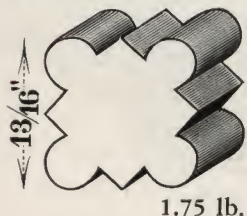
No. 4185



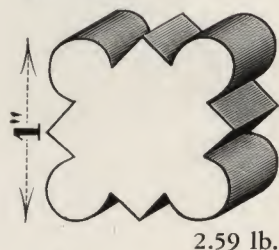
No. 4184



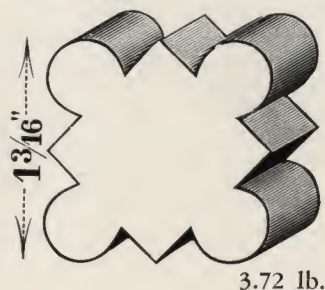
No. 4190



No. 4191



No. 4192

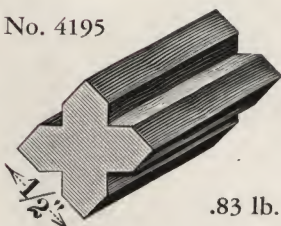


No. 4187

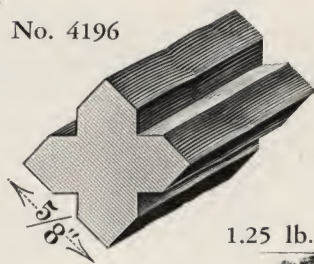


HAND HAMMERED EFFECT

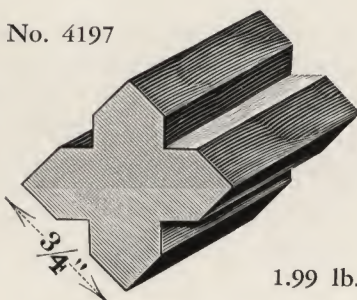
No. 4195



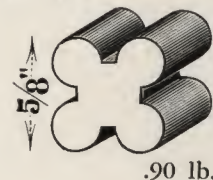
No. 4196



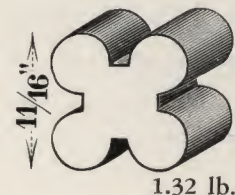
No. 4197



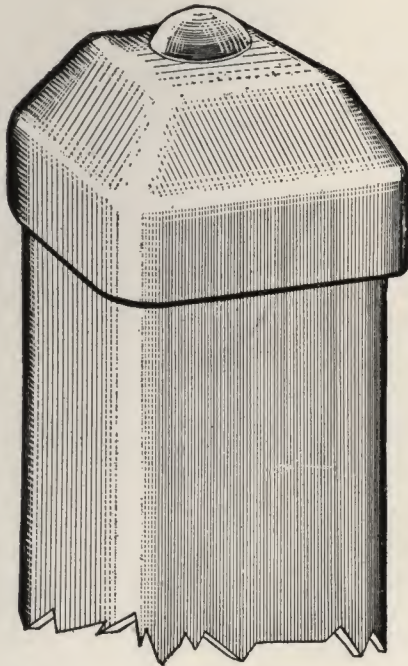
No. 4188



No. 4189



Pressed Steel Cap
TYPE O



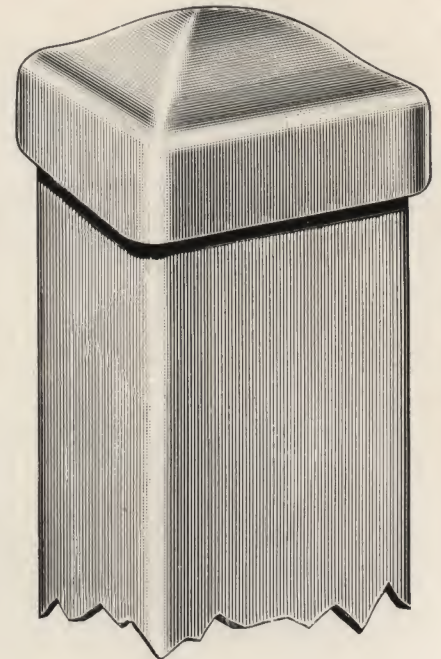
All Steel Stair Posts

Pressed Steel Tops and Drops Type N and Type O can be furnished **ONLY** for 3" x 3" x 3/16" Square Tubing.

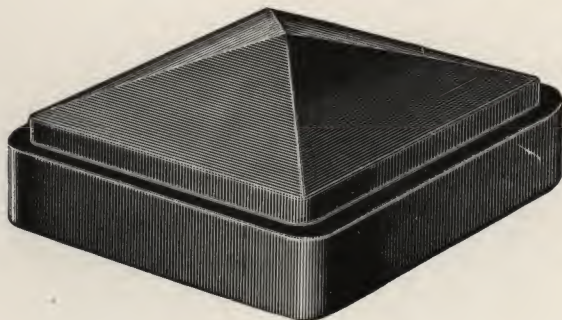
Pressed Steel Tops and Drops Type "N" and Type "O" **REQUIRE NO FASTENING** by rivet or screw. They fit snugly over the ends of the tubing and cannot be removed by ordinary means if painted on the inside and driven wet over the ends of the tubing.

We carry in stock **HOT ROLLED SQUARE AND RECTANGULAR STEEL TUBING** as shown on Page No. 99.

Pressed Steel Cap
TYPE N



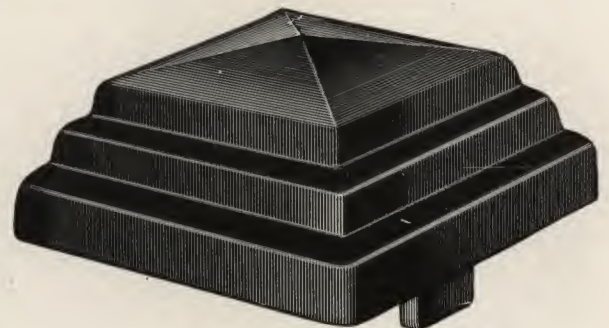
**STRONGER AND CHEAPER THAN CAST IRON.
FIREPROOF. SANITARY. NO BREAKAGE. NO DELAY.**



Type A (without lugs)
(Cast Iron)

IN STOCK FOR SQUARE TUBES:

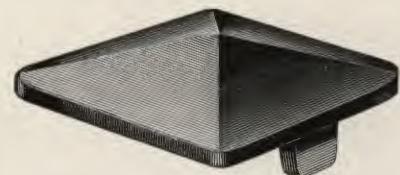
3" x 3" x 3/16"
3 1/2" x 3 1/2" x 3/16"
4" x 4" x 3/16"



Type B (with lugs)
(Cast Iron)

IN STOCK FOR SQUARE TUBES:

3" x 3" x 3/16"
3 1/2" x 3 1/2" x 3/16"
4" x 4" x 3/16"



Type C (with lugs)
(Cast Iron)

IN STOCK FOR SQUARE TUBES:

1 1/2" x 1 1/2" x .140"
2" x 2" x 9/64"
2 1/2" x 2 1/2" x 3/16"

Cast Iron Tops and Drops Type "A", Type "B" and Type "C" must be fastened by screws.

Ornamented Post

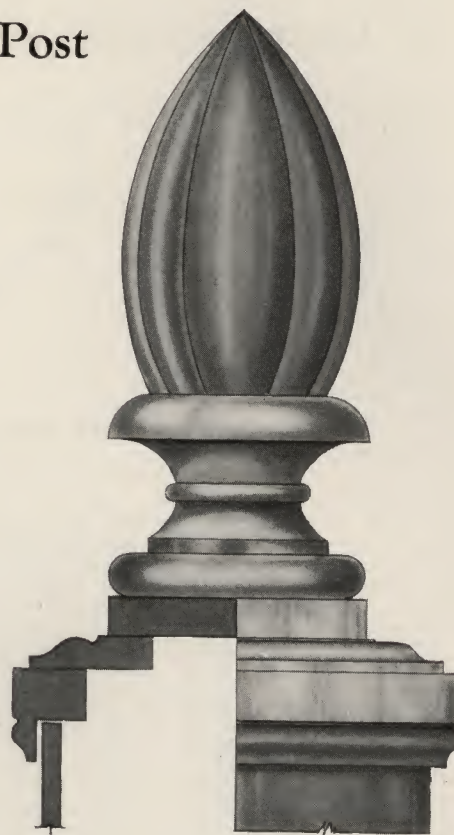
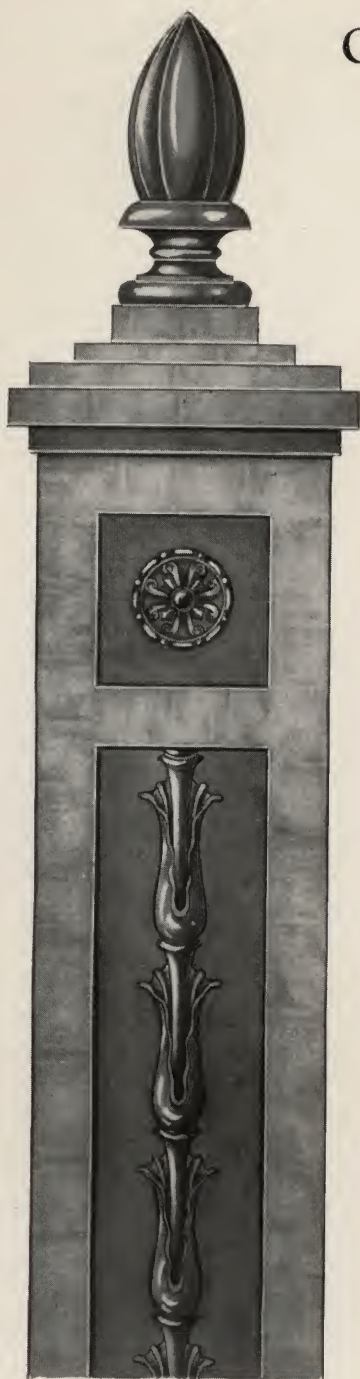
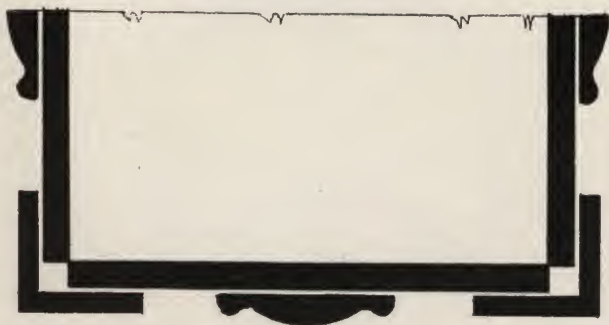


Illustration (on left) shows panelled post ornamented with Applied Designs. (See Pages Nos. 51-53.) Cap formed by a series of square or rectangular plates with Forged Finial No. 68 on top.

Striking effects may be produced by combinations of steel, bronze and aluminum shapes.

We show (above) another method of forming top of post by means of Mouldings No. 4452 and No. 4453 and Forged Finial No. 68.



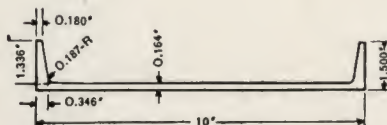
Sectional detail through post

Square or Rectangular Posts of any desired dimension, diameter or length may be formed by using plates of suitable width, together with Cold Drawn *SQUARE EDGE* Angles. The square edges of the angles form a panel for the Applied Designs and Rosettes. (Shown on Pages Nos. 51-53.)

J & L Light Weight 10" and 12" Steel Stair Channels

Can be furnished from New York or Pittsburgh or Chicago Stock

These Channels are especially suited for the construction of Steel Stair Stringers, Facias, Marquee Frames, Door Bucks, etc.



Dimensions above are for C-751
See table below for C-750 and C-700

Section Index	Depth of Channel, Inches	Wt. per Foot, Lbs.	Flange Width		Web Thickn's	
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch
C-750	10	8.8	1.523"	1 ³³ / ₆₄ "	0.187	³ / ₁₆ "
C-751	10	8.0	1.5"	1 ¹ / ₂ "	0.164	¹³ / ₆₄ "
C-700	12	10.6	1.500"	1 ¹ / ₂ "	0.190	³ / ₁₆ "



Properties of Section

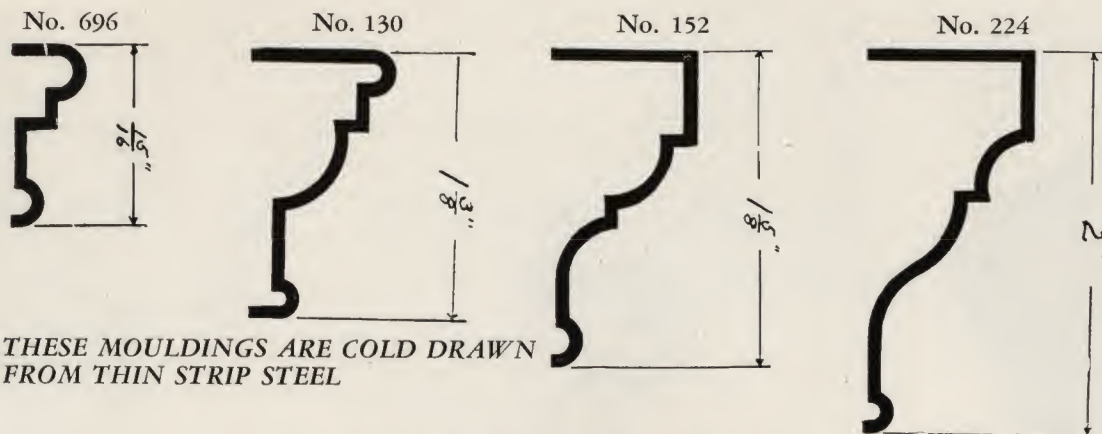
Area Sq. In.	Axis X-X (Perpendicular to Web)			Axis Y-Y (Parallel to Web)			
	I	r	S	I'	r'	S'	n'
2.57	32.3	3.54	6.4	0.35	0.37	0.28	0.28
2.34	30.3	3.60	6.1	0.33	0.38	0.27	0.29
3.12	55.8	4.23	9.3	0.39	0.35	0.32	0.27

FIVE DISTINCTIVE ADVANTAGES

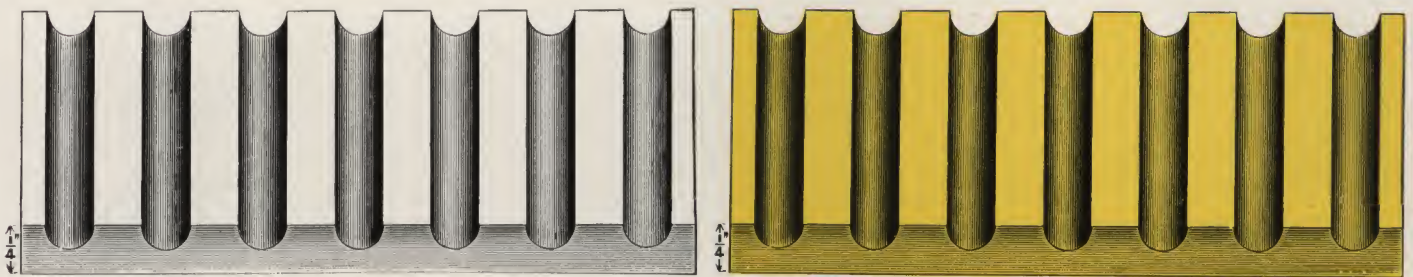
1. SAVING IN WEIGHT. J & L Light Weight Channels are approximately one-half the weight of the lightest standard rolled channels of equal depth and offer greater strength than formed plates of equal weight.
2. EASE OF FABRICATION. J & L Light Weight Channels are ready, as received, for fabrication, which may be accomplished quickly, with a minimum of shop equipment, at lowest cost.
3. EASE OF INSTALLATION. Light weight, accurate dimensions, straight lines and square corners of J & L Light Weight Channels make for easy handling and speedy installation wherever they are used.
4. FINISHED APPEARANCE. No rounded corners; straight true lines and proper fitting at joints result in a finished job of unusually attractive appearance.
5. SCHOOLS AND PUBLIC BUILDINGS. The 12-inch J & L Channels are especially adapted to stair construction in schools and other buildings where a broad tread is required.

For trim we recommend Mouldings Nos. 4300, 4302, 4303, 4304, 4305, 4307, 4309, 4312, 4240 and 5151.

Cold Drawn Steel Mouldings



Flat Fluted Sections



Carried in stock in HOT ROLLED STEEL and in ARCHITECTURAL BRONZE

HOT ROLLED STEEL

- No. 4540—1 1/2" wide
- 4541—2" "
- 4542—2 1/2" "
- 4543—3" "
- 4544—3 1/2" "
- 4545—4" "
- 4546—4 1/2" "
- 4549—6 1/2" "

ARCHITECTURAL BRONZE

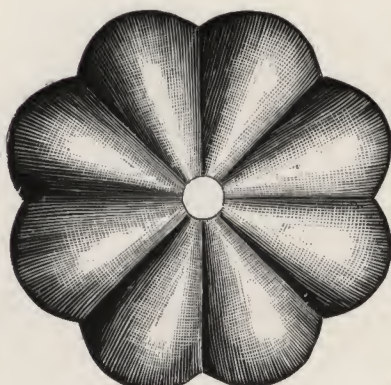
- No. 4558—1 1/2" wide
- 4557—2" "
- 4556—2 1/2" "
- 4555—3" "
- 4554—3 1/2" "
- 4553—4" "
- 4553Q—4 1/4" "
- 4552—4 1/2" "
- 4551—5" "
- 4550—5 1/2" "
- 4559—6 1/8" "

For the construction of Elevator Saddles and Thresholds (See pages Nos. 69 to 85)

For Pilasters and Mullions,
(See pages Nos. 48 and 56)

For Edge Protection (See page No. 30)

For Trench Covers (See page No. 33)



Pressed Steel Rosettes

Carried in stock:

- 1 inch
- 1 1/4 inch
- 1 1/2 inch
- 2 inch
- 3 inch

CHEAPER AND CLEANER
THAN CAST IRON
ROSETTES

For fence work, window guards,
risers, stringers, etc.

WILL NOT BREAK.
SMOOTH SURFACE.

Stair Stringer and Facia Constructions

Plate Stringer with Moulding
No. 5172 top and bottom.



Plate Stringer with Moulding No.
4153 top and bottom.

Panels Moulding No. 4257. Plas-
ter Soffit Stop Moulding No. 4463.



Plate Stringer with Moulding
No. 4172 top and bottom.

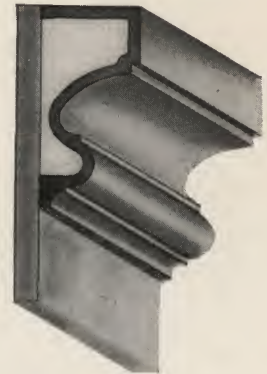


Plate Stringer with Moulding
No. 4243 on top and No.
4241 on bottom.

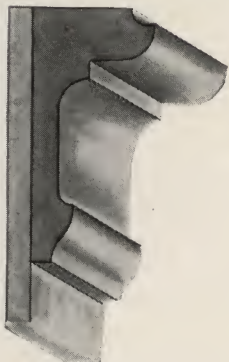


Plate Stringer with Moulding
No. 4154 top and bottom.

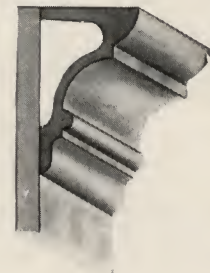
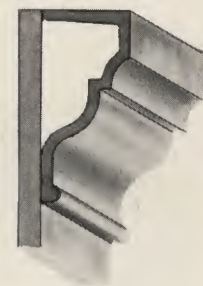
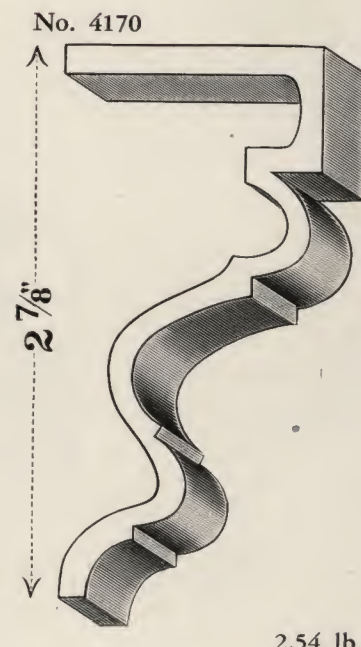
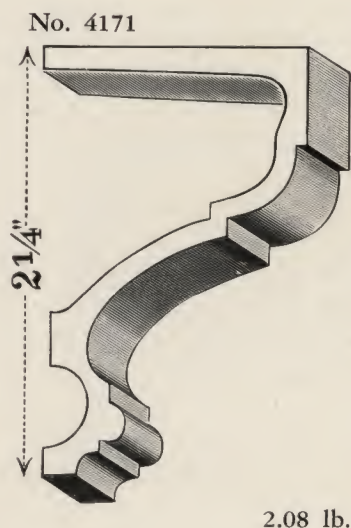
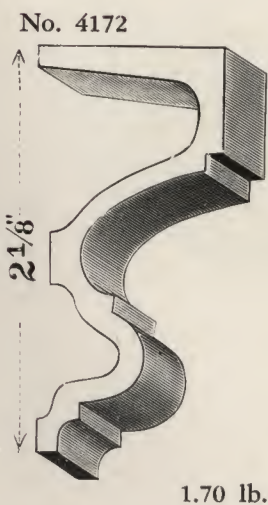
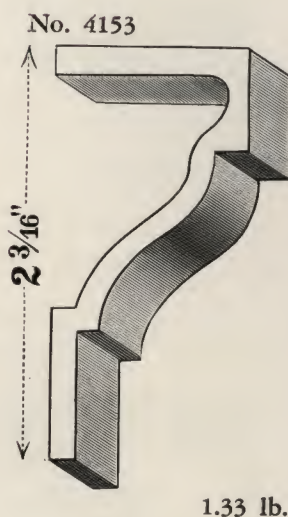
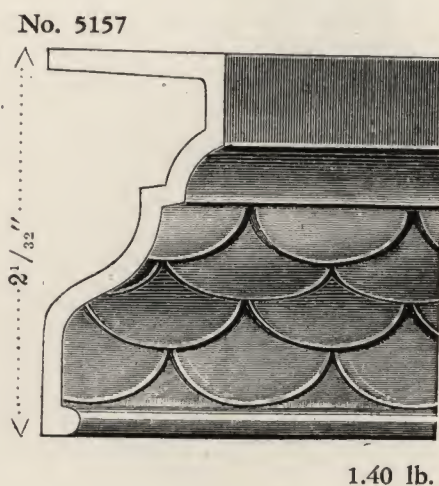
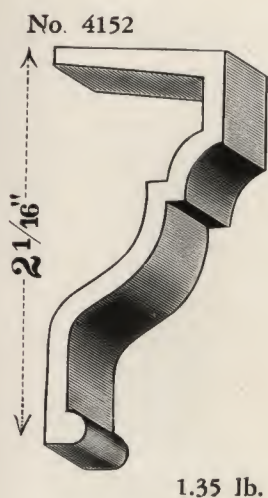
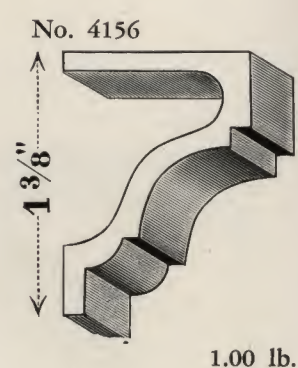
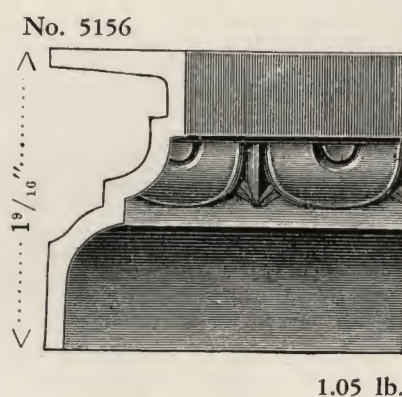
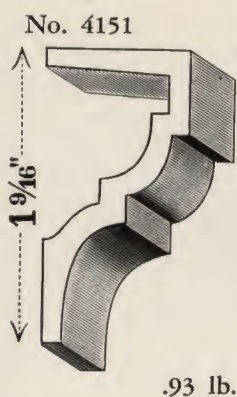
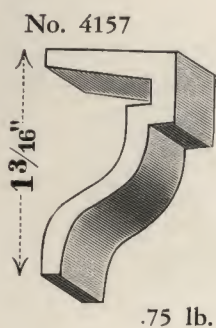


Plate Stringer with Moulding
No. 4152 top and bottom.



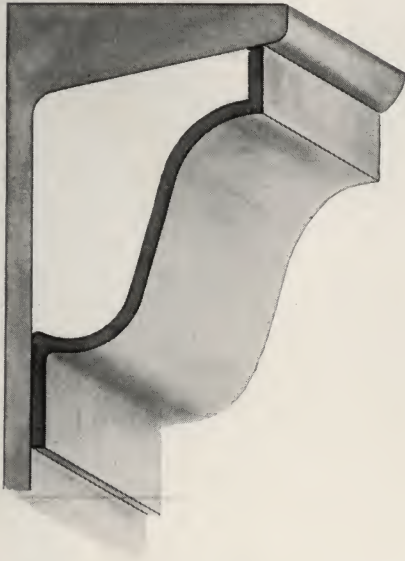
Details shown are ONE-HALF actual size.

SUITABLE MOULDINGS, PLAIN OR ORNAMENTED, MAY BE USED
FOR PANELING STRINGERS AND FACIAS.

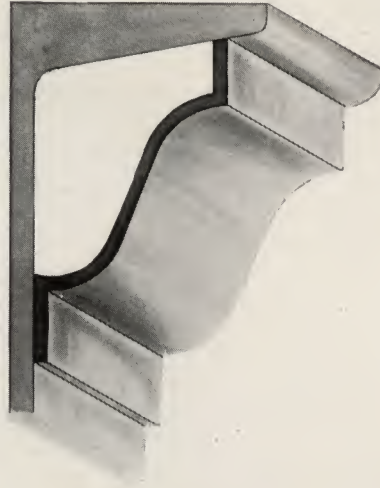


Stair Stringer and Facia Constructions

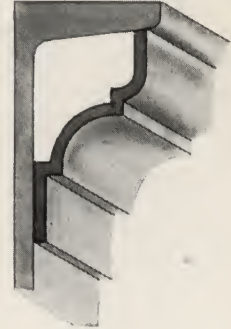
Channel Stringer with Moulding
No. 4353 top and bottom.



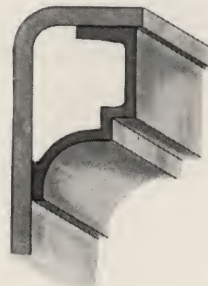
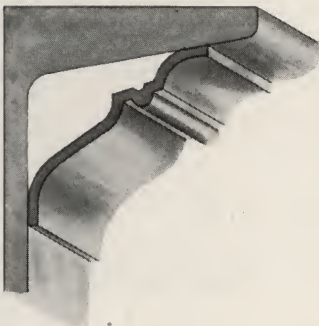
Channel Stringer with Moulding
No. 4356 top and bottom.



Special 10" or 12" Stringer
Channel. Moulding No. 4303
top and bottom.

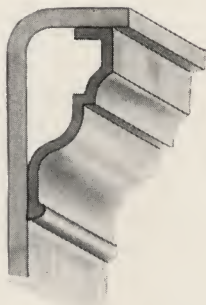


Channel Stringer with Mould-
ing No. 4315 top and bottom.



Bent Plate Channel Stringer
with Moulding No. 4173 top
and bottom.

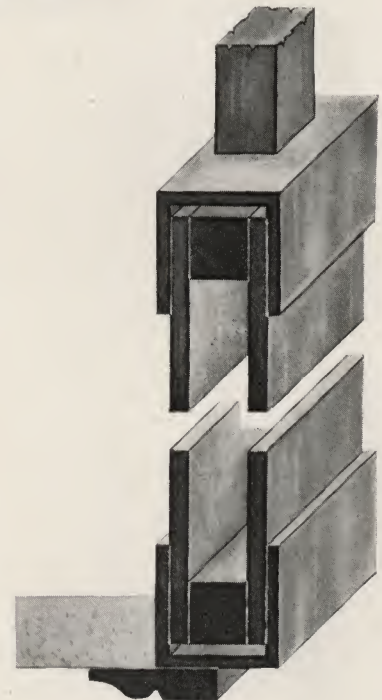
Bent Plate Channel
Stringer with Moulding
No. 4159 top and
bottom.



*Suitable Mouldings, Plain or Or-
namented, may be used for panel-
ing stringers and facias.*

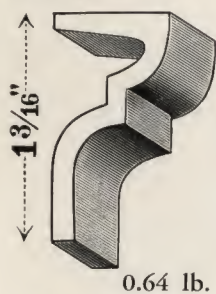
Box Stringer with Channel No. 4744 top
and bottom. Every third baluster bar
is carried through to bottom for stiffen-
ing of box stringer and railing.

Moulding No. 4452 used for plaster
soffit stop.

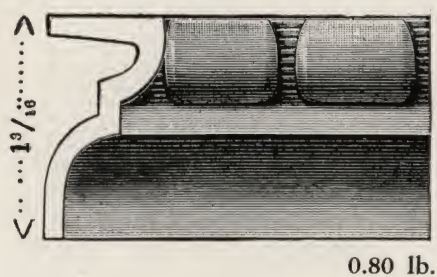


Details shown are ONE-HALF actual size.

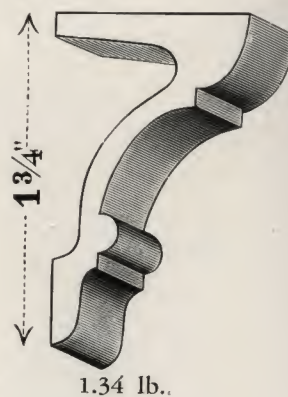
No. 4150



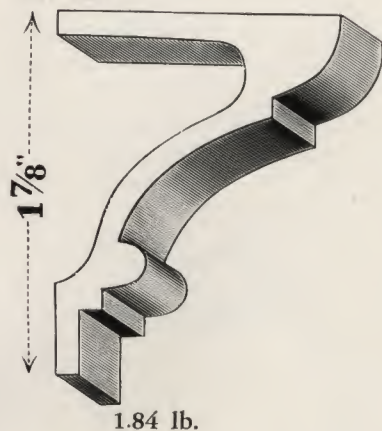
No. 5155



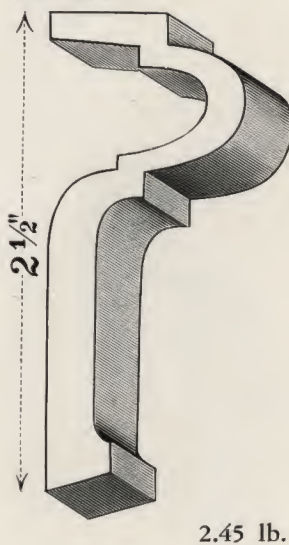
No. 4154



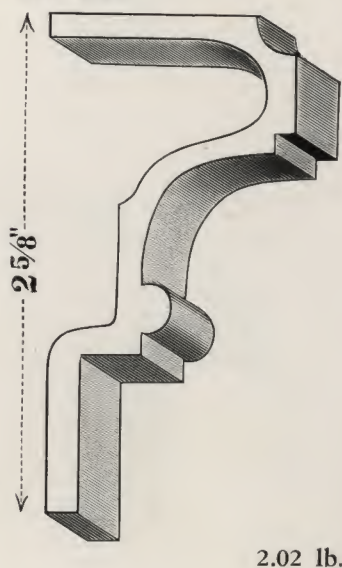
No. 4155



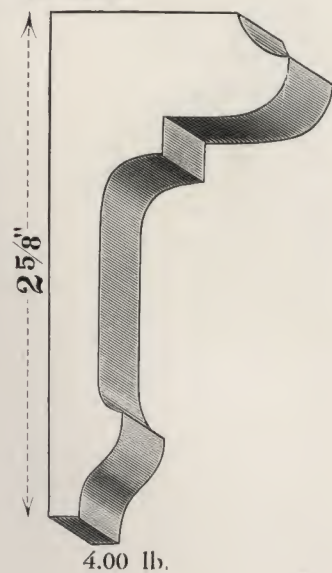
No. 4161



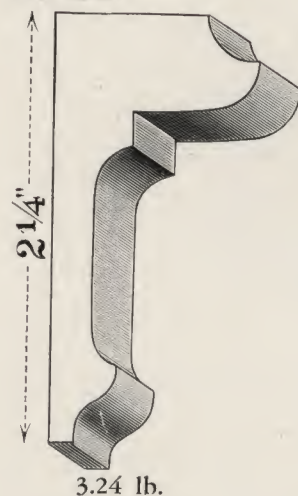
No. 4162



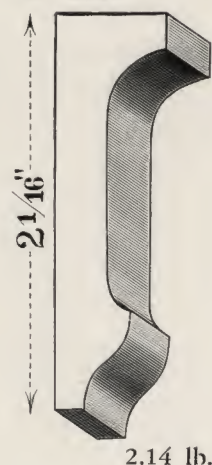
No. 4243



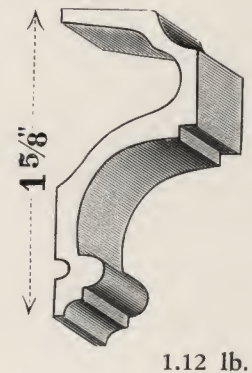
No. 4242



No. 4241



No. 4163



Stair Stringer and Facia Constructions

Plate Wall Stringer with
Moulding No. 4226.

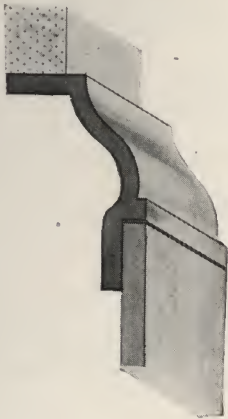


Plate Wall Stringer with
Moulding No. 4225.

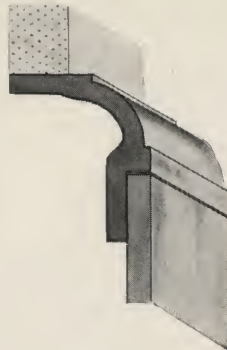


Plate Wall Stringer with
Moulding No. 4310.

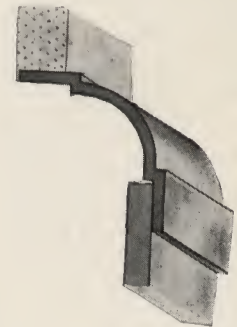
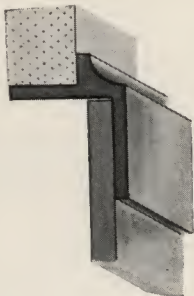
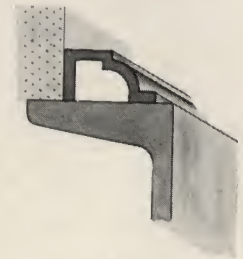


Plate Wall Stringer with
Moulding No. 4610.



Channel Wall Stringer with
Moulding No. 4130.



Wainscoting or Plate Wall
Stringer with Moulding No.
4280.

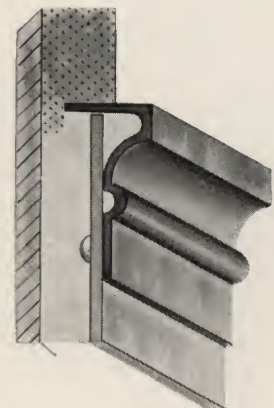
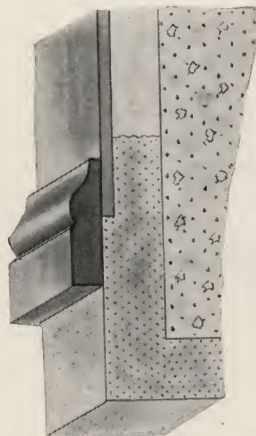


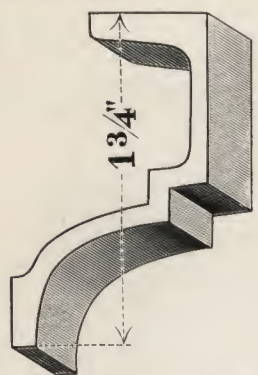
Plate Facia with Chan-
nel No. 4760 on top.
Moulding No. 4452
used for plaster soffit
stop.



Details shown are ONE-HALF actual size.

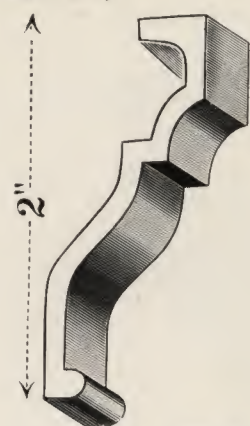
SUITABLE MOULDINGS, PLAIN OR ORNAMENTED, MAY BE USED FOR
PANELING STRINGERS AND FACIAS.

No. 4173



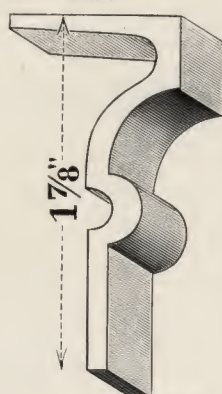
1.17 lb.

No. 4159



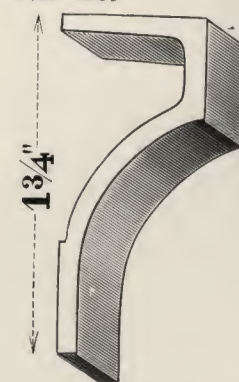
1.00 lb.

No. 4280



1.10 lb.

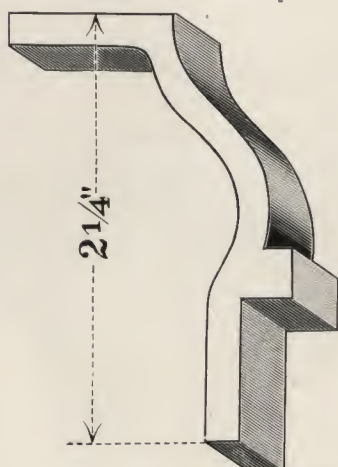
No. 4265



.93 lb.

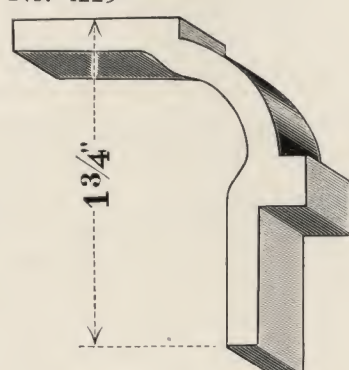
WALL STRING MOULDINGS

No. 4226



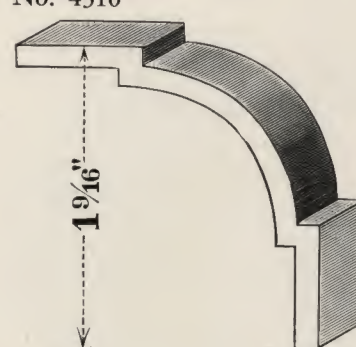
1.90 lb.

No. 4225



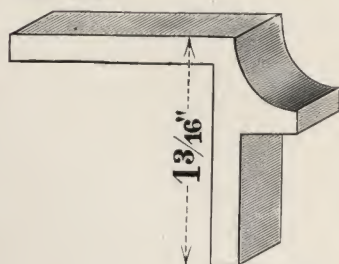
1.70 lb.

No. 4310



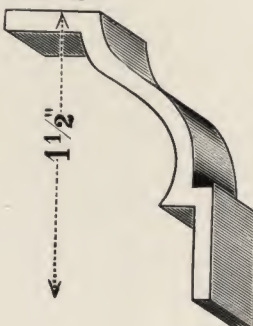
1.00 lb.

No. 4610



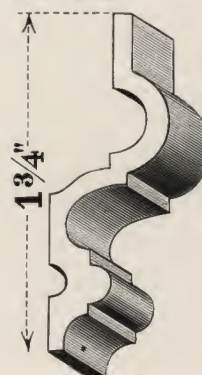
1.15 lb.

No. 4317



.90 lb.

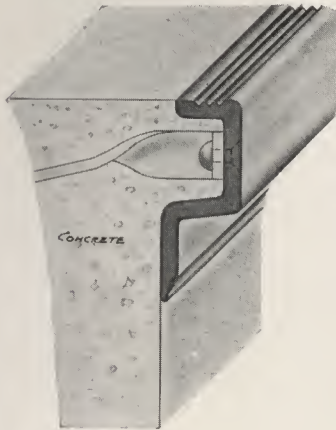
No. 4240



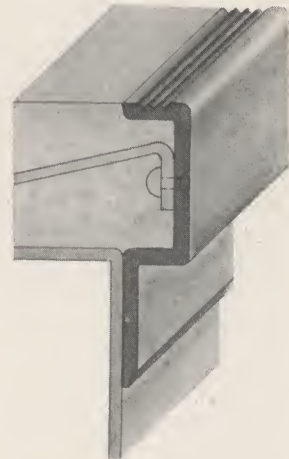
.84 lb.

Construction of Treads and Platforms

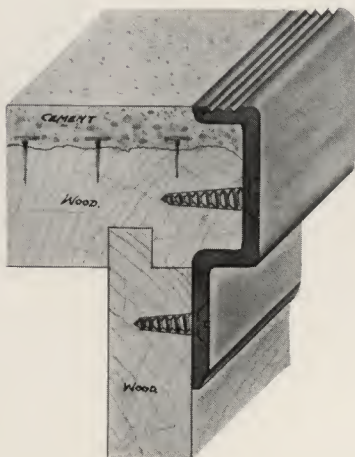
Nosing No. 4231 with anchor for concrete treads.



Nosing No. 4232 with anchor used on steel risers.

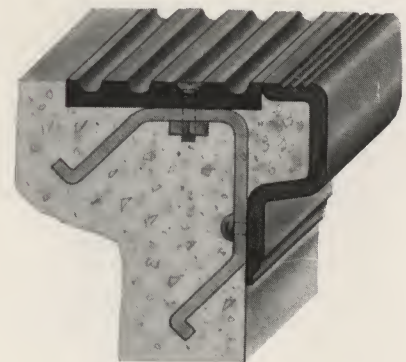


Nosing No. 4232 used for repair of worn out wooden treads.

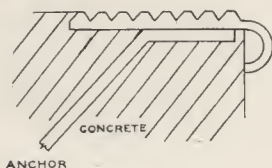


Nosing No. 4231 applied to steel riser for asphalt or composition treads.
Moulding No. 4201 used for riser panel.

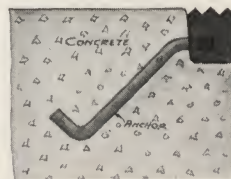
Nosing No. 4231 and Flat Fluted Moulding No. 4541 with anchor for protection of concrete edges.



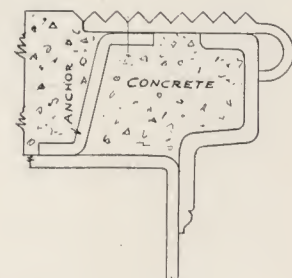
Moulding No. 4508 with anchor for protection of concrete edges.



Moulding No. 4518 with anchor used for protection of concrete edges or pre-cast treads.



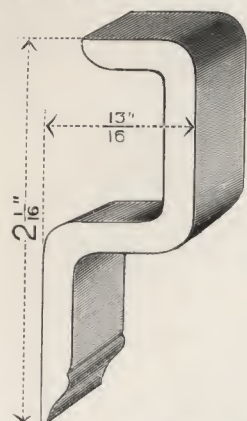
Moulding No. 4508 with anchor and Nosing No. 4230 used on steel risers.



Details shown are ONE-HALF actual size.

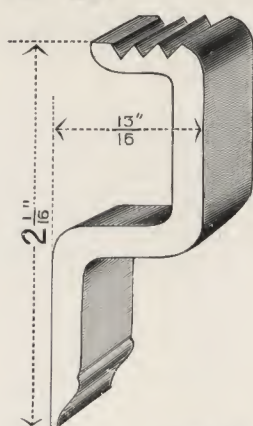
Nosings for Treads and Platforms

No. 4230



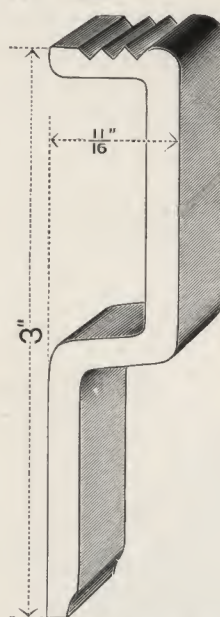
1.80 lb.

No. 4231



1.68 lb.

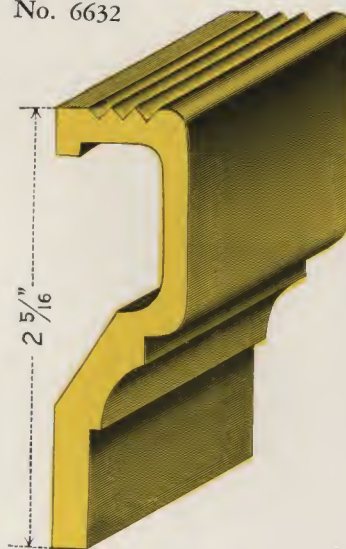
No. 4232



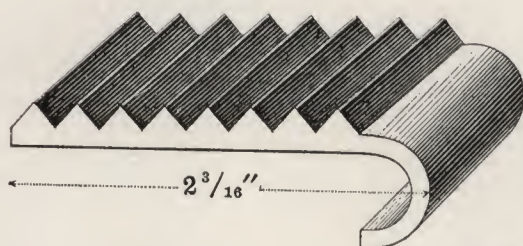
2.25 lb.

Architectural Bronze

No. 6632

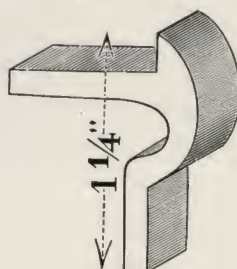


Non-Slipping Edge Nosing
No. 4508



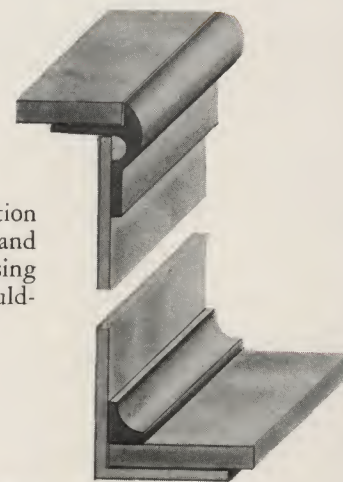
1.34 lb.

Nosing for Steel Treads
No. 4235

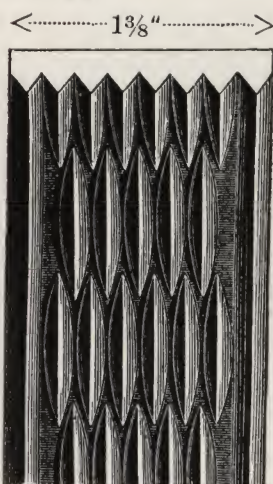


1.00 lb.

Showing construction
of Steel Riser and
Tread with nosing
No. 4235 and mould-
ing No. 4102.

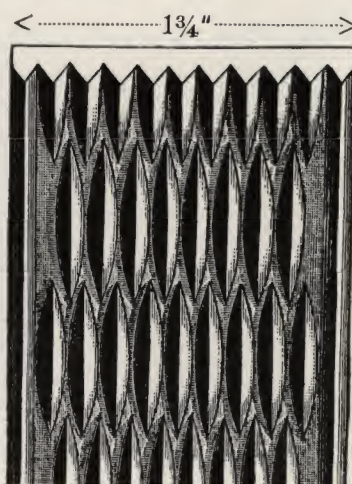


No. 4497



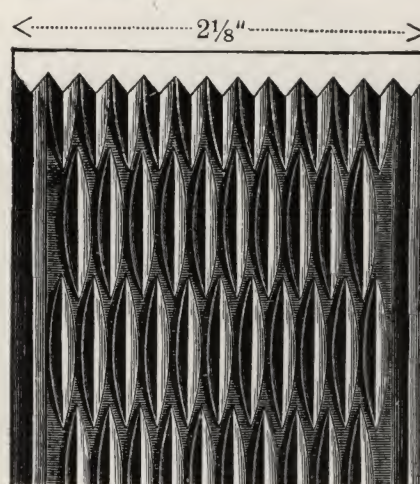
.54 lb.

No. 4498



.81 lb.

No. 4499



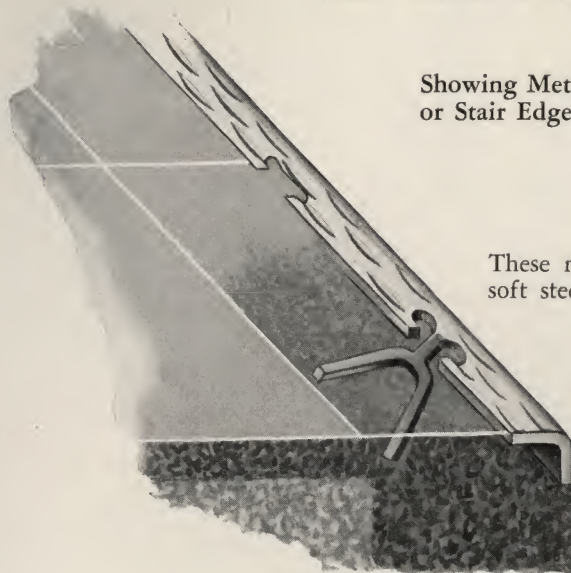
.99 lb.

Hot Rolled Galvanized Steel Curb Bars

FOR THE PROTECTION OF STAIR TREAD AND PLATFORM EDGES,
CURBS, COLUMN CORNERS, ETC., ETC.

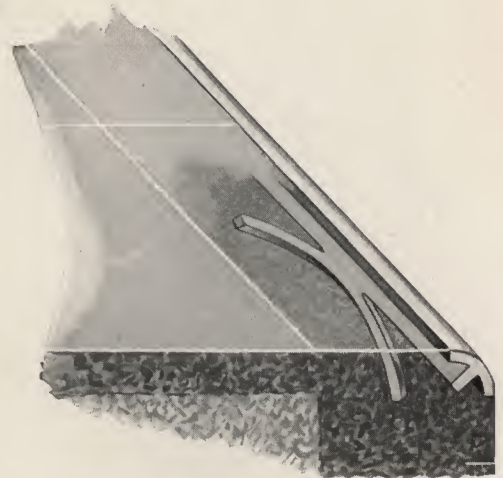
THE NOSING AND ANCHORS CONSIST OF ONE PIECE

Showing Method of Employment on Curb
or Stair Edge. Note firm hold of anchor
in concrete.



These mouldings are rolled from
soft steel and can be bent easily.

*Curb Bars are shown
ONE-QUARTER actual
size.*

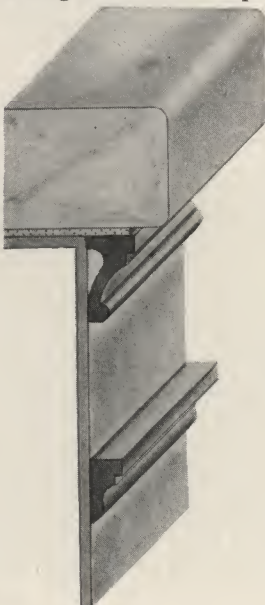


Section No. 4246 is a galvanized Steel Angle nosing with non-slipping safety tread. The forked anchors are punched and sheared from the top flange of the $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{3}{16}$ " galvanized angle and extend $2\frac{3}{4}$ " into the concrete, at a downward angle.

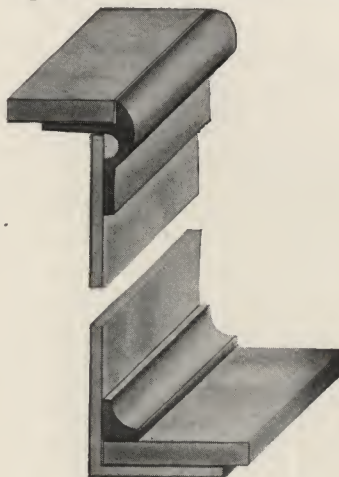
Section No. 4245 is a galvanized Steel Tee Moulding, rolled with a 1" Radius. The anchors are sheared and bent away from the center web, giving a $2\frac{3}{4}$ " anchorage into the concrete. These anchors are slightly staggered, which distributes the stress and prevents splitting of the concrete and permits a ready flow of same between the anchors.

RISER AND TREAD CONSTRUCTIONS

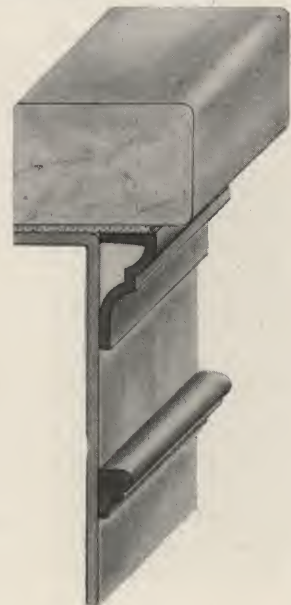
Moulding No. 4203 used underneath
Bluestone or marble treads.
Moulding No. 4125 for panel.



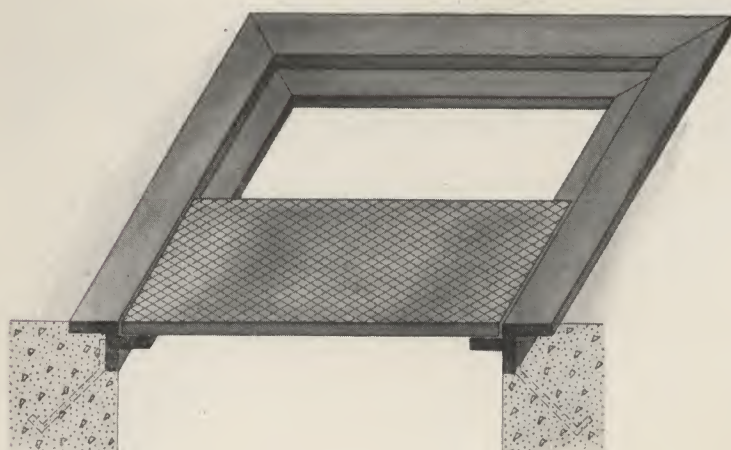
Moulding No. 4235 and Cove Mould-
ing No. 4102 for steel treads.



Moulding No. 4150 used underneath
Bluestone or marble treads.
Moulding No. 4200 for panel.

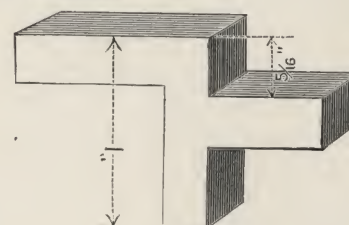


Details shown are ONE-HALF actual size.



Rolled Steel Moulding
for Trench Covers

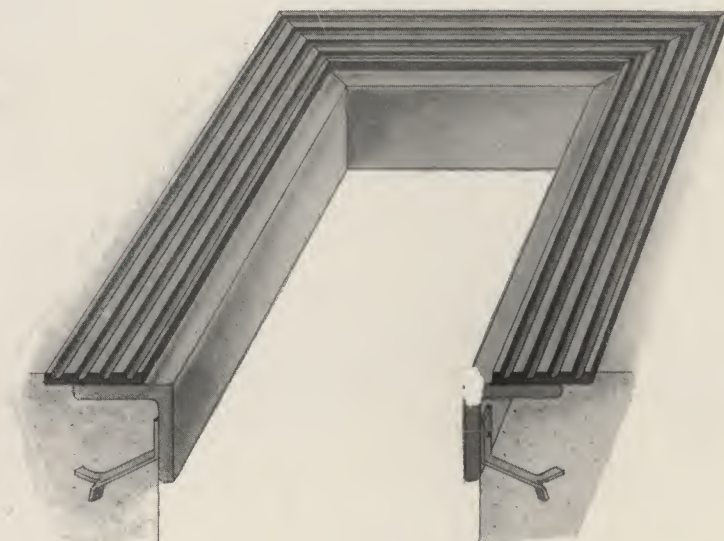
No. 4509



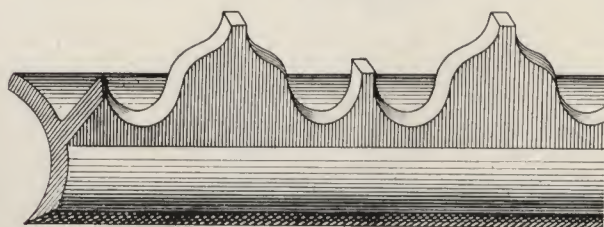
1.81 lb.

Showing Rolled Steel or Architectural Bronze
Flat Fluted Sections with Moulding No. 4509
or an angle with anchors used for

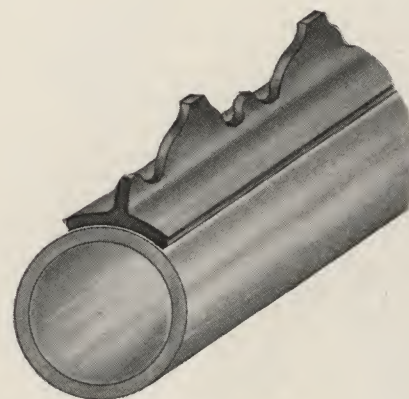
- Trench Cover Frames
- Sidewalk Doors
- Vault Lights
- Cesspool Covers
- Clean-out Doors
- Sump-Pit Cover Frames
- Coal Hole Cover Frames
- Trap Door Frames



Rolled Steel "Loafers' Rail"



Carried in stock in bars up to 20' long. Will fit over pipe or on flat surfaces. Rolled steel "LOAFERS' RAIL" or "LOAFERS' CUSHION" affords effective protection against lounging on fences, railings, store fronts, etc. STRONGER AND BETTER IN APPEARANCE THAN CAST IRON.

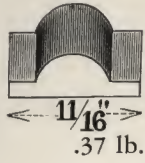


Detail of Rolled Steel
"LOAFERS' RAIL"
applied to round tubing

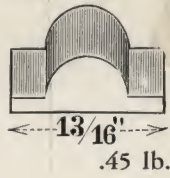
No. 4404



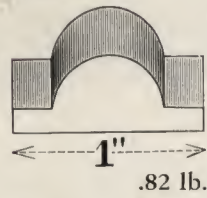
No. 4401



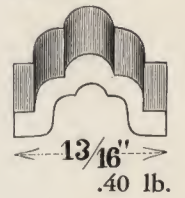
No. 4402



No. 4403



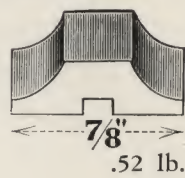
No. 4482



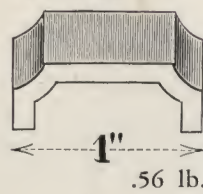
No. 4491



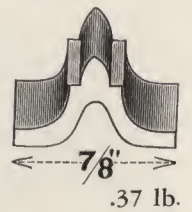
No. 4432



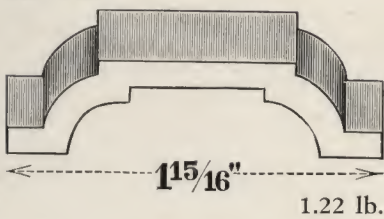
No. 4421



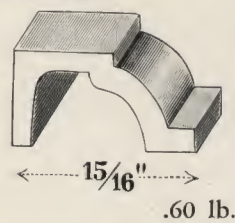
No. 4492



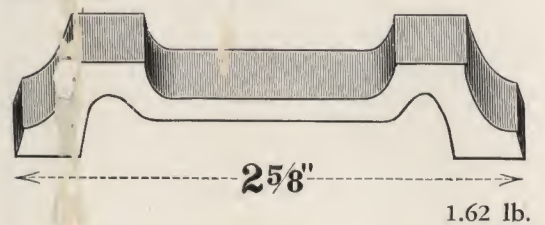
No. 4423



No. 4130

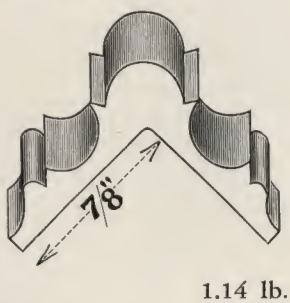


No. 4442

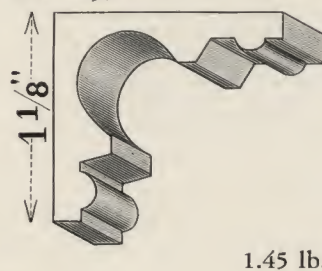


Moulding No. 4423 will form a perfect mitre with Moulding No. 4130.

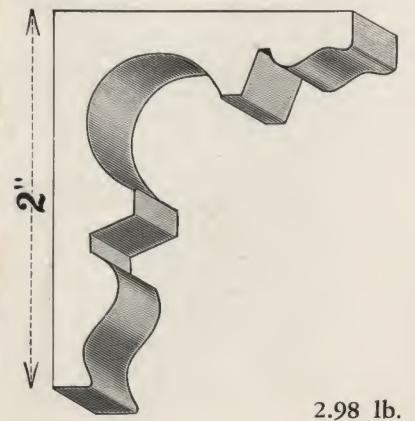
No. 4489



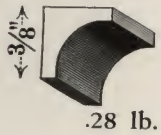
No. 4495



No. 4496

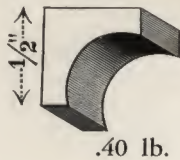


No. 4101



.28 lb.

No. 4102



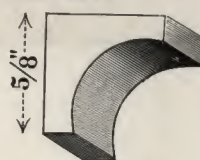
.40 lb.

No. 4103



.59 lb.

No. 4110



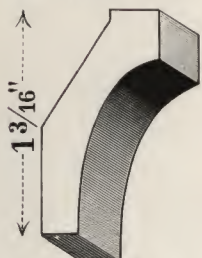
.72 lb.

No. 4104



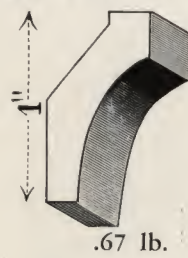
.63 lb.

No. 4108



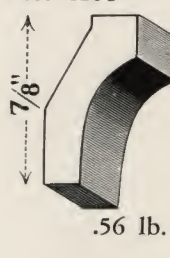
1.05 lb.

No. 4107



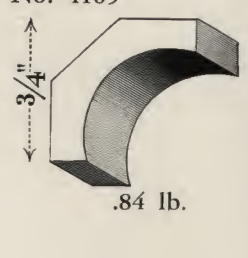
.67 lb.

No. 4106



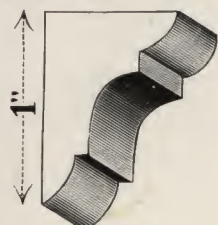
.56 lb.

No. 4105



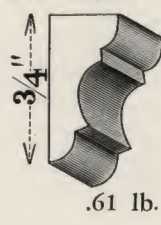
.84 lb.

No. 4120



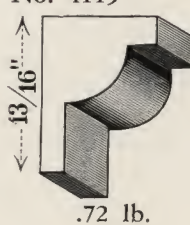
1.07 lb.

No. 4480



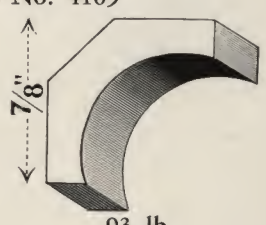
.61 lb.

No. 4119



.72 lb.

No. 4109



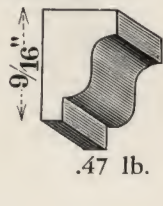
.93 lb.

No. 4257



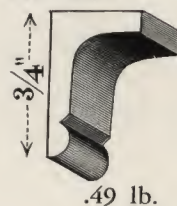
.66 lb.

No. 4258



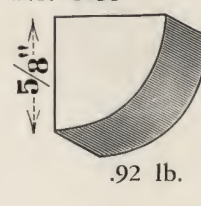
.47 lb.

No. 4121



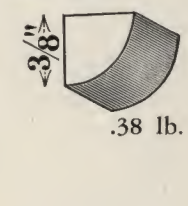
.49 lb.

No. 4486



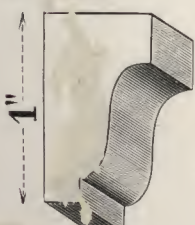
.92 lb.

No. 4485



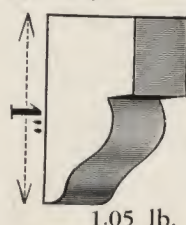
.38 lb.

No. 4256



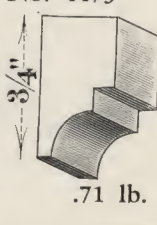
1.23 lb.

No. 4451



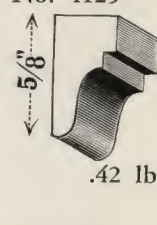
1.05 lb.

No. 4473



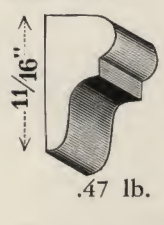
.71 lb.

No. 4125

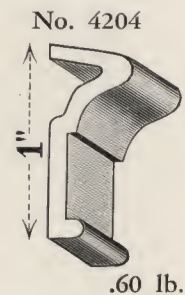
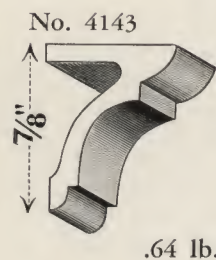
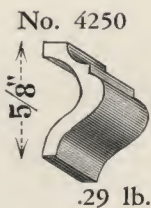
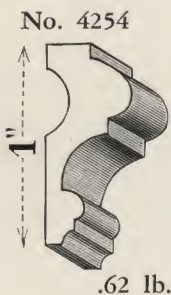
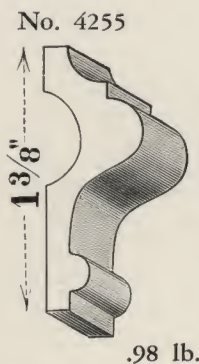
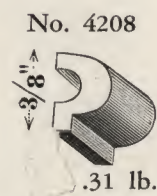
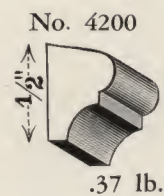
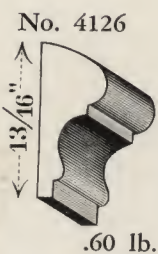
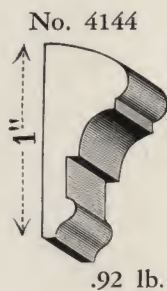
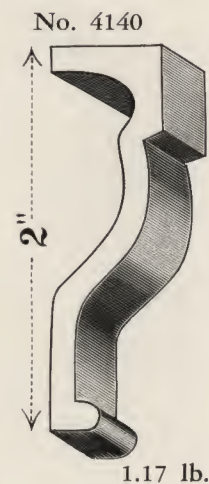
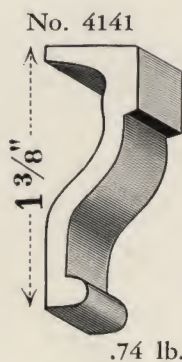
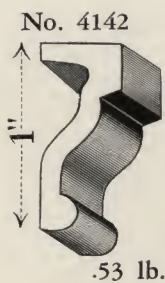
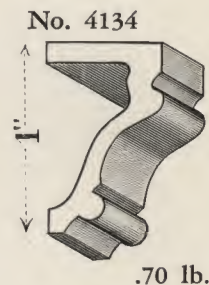
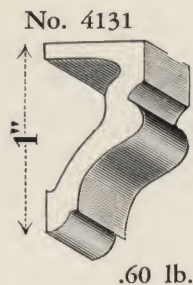
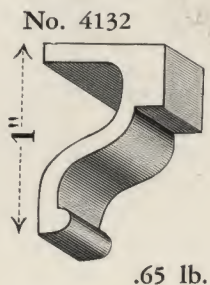
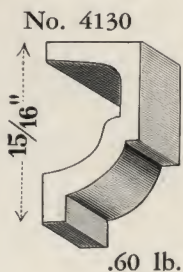
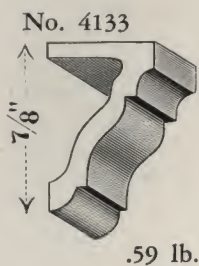


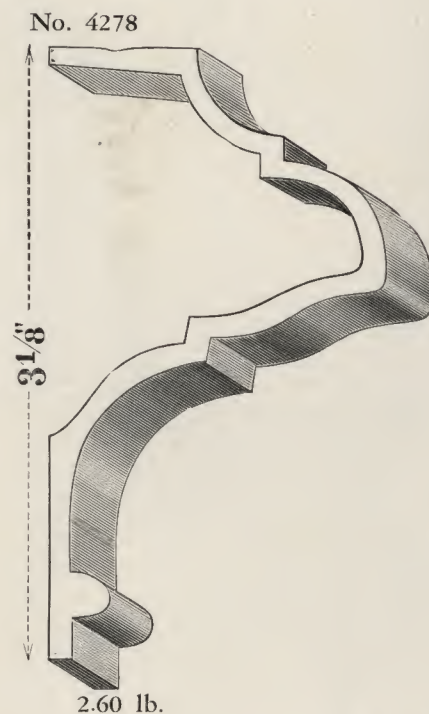
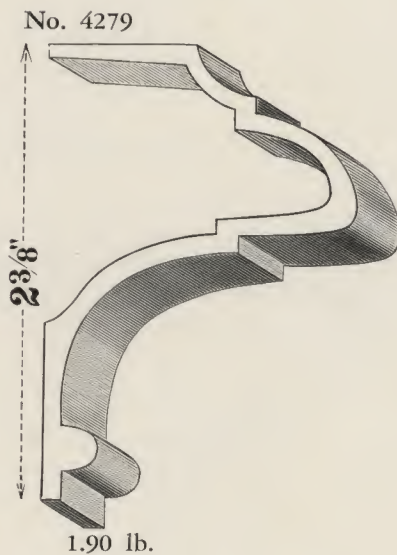
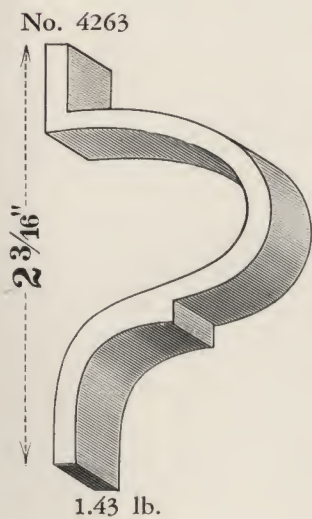
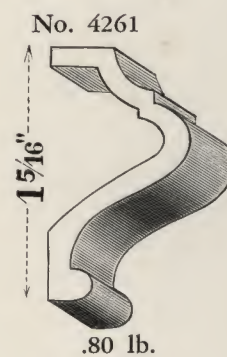
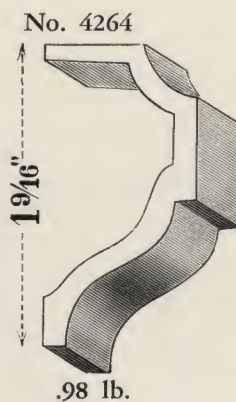
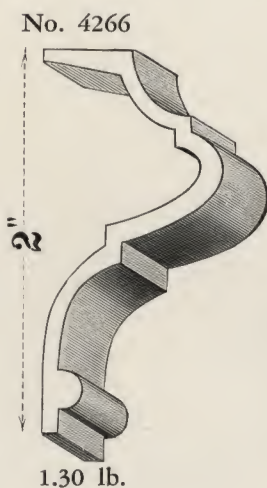
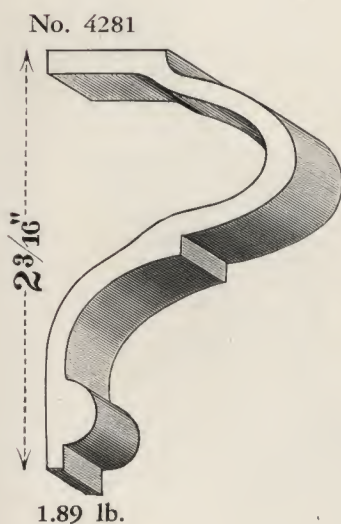
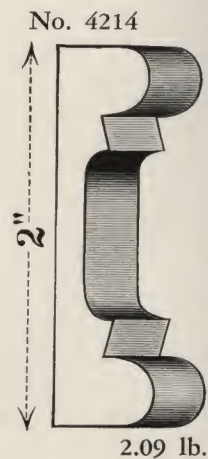
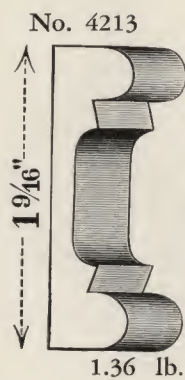
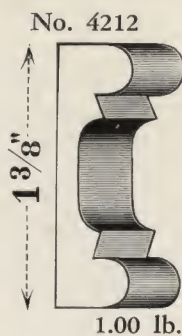
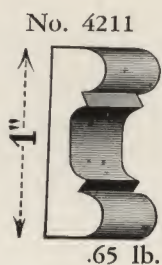
.42 lb.

No. 4123



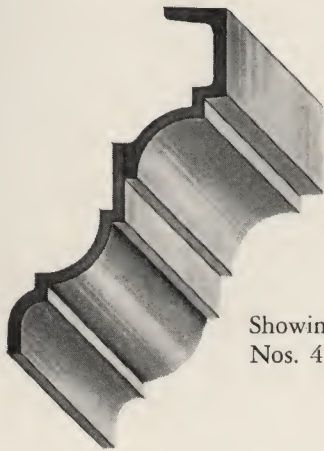
.47 lb.



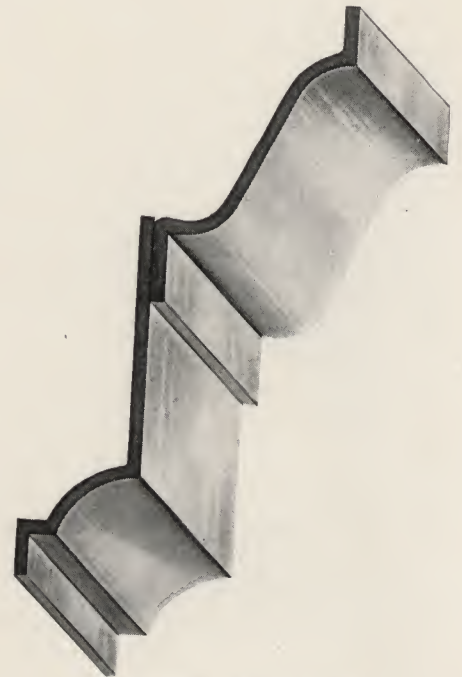


Built-Up Cornices and Facias

We attempt to show a few methods of constructing large cornices or facias by means of Rolled Steel Mouldings and standard shapes. An unlimited variety of designs, plain or ornamented, may be assembled in like manner.



Showing Mouldings
Nos. 4173 and 4302



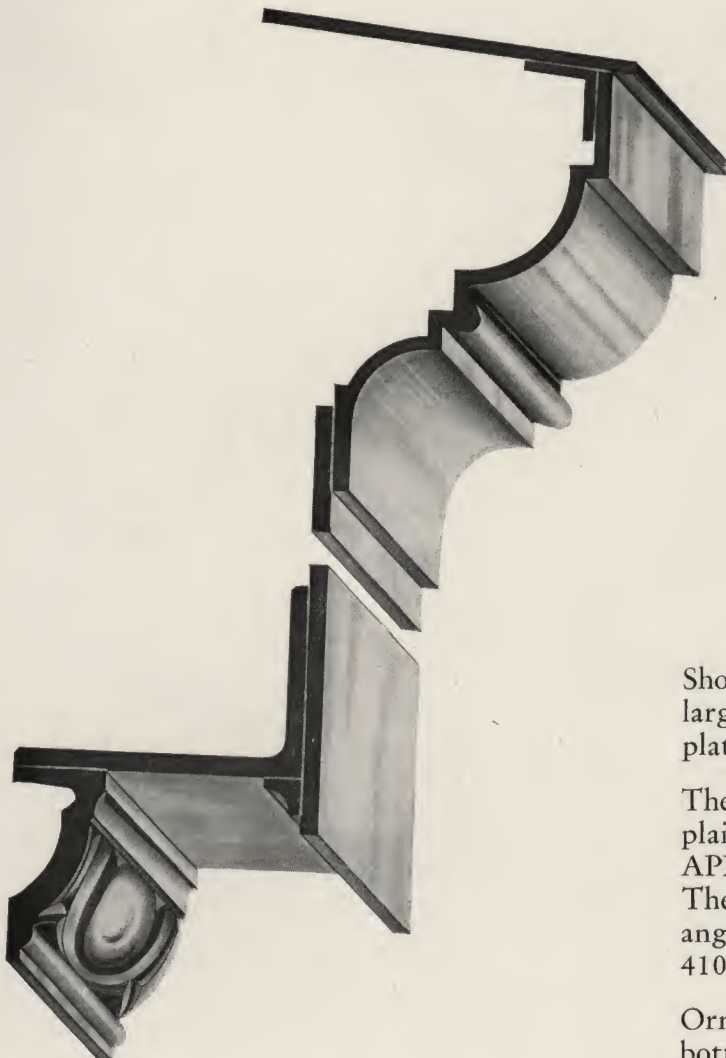
Showing Mouldings
Nos. 4360 and 4356

Details shown are ONE-HALF actual size.

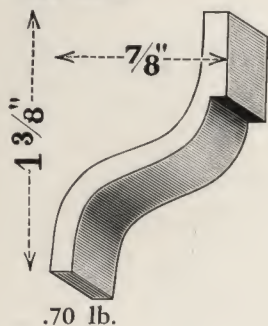
Showing (on left) typical construction of a large cornice. Moulding No. 4351, with deck plate used on top.

The fascia plate below may be panelled with plain or ornamented mouldings or with APPLIED DESIGNS. (See Pages Nos. 50-53.) The fascia plate extends beyond the connecting angle and acts as a drip, with Moulding No. 4103 used as a filler.

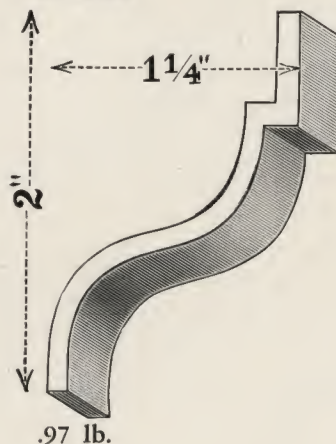
Ornamented Moulding No. 5172 applied to bottom.



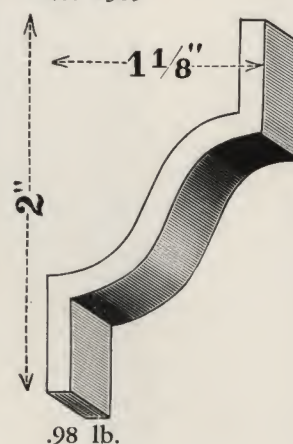
No. 4300



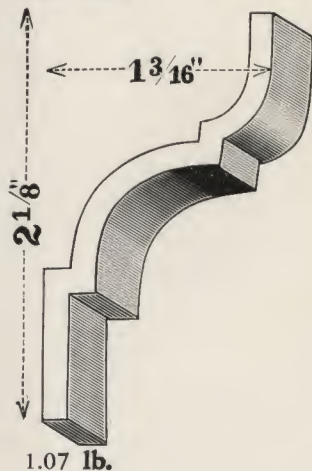
No. 4304



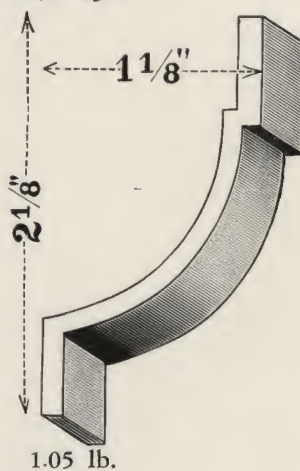
No. 4305



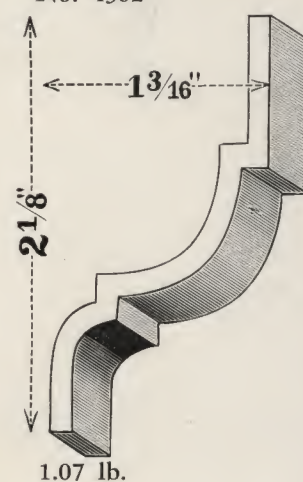
No. 4303



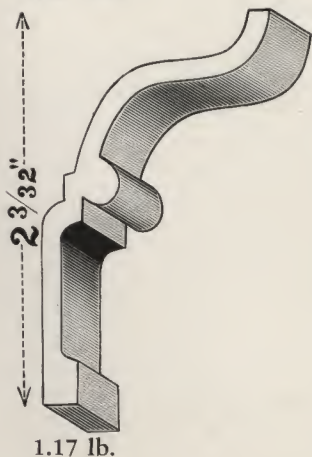
No. 4312



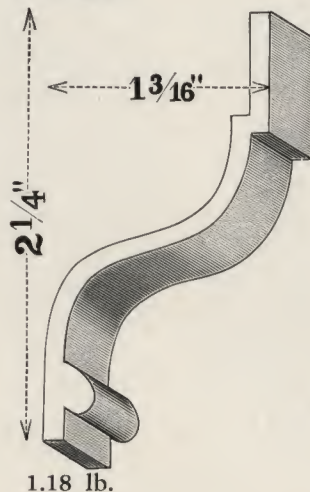
No. 4302



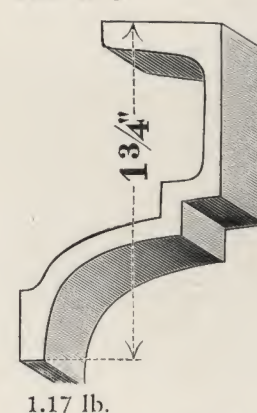
No. 4309

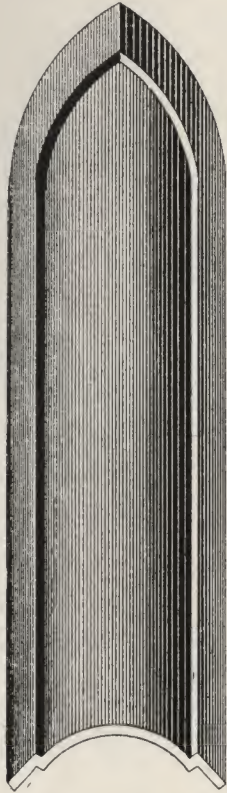


No. 4307

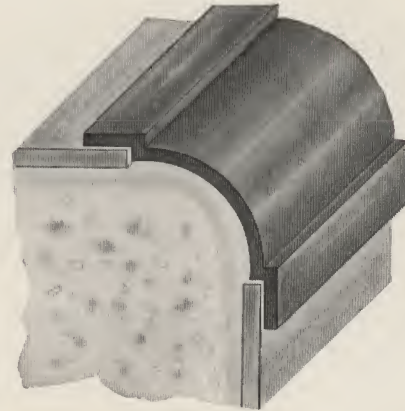


No. 4173





Showing how Mouldings Nos. 4310, 4320 and 4330 can be used for forming Corner Bars.



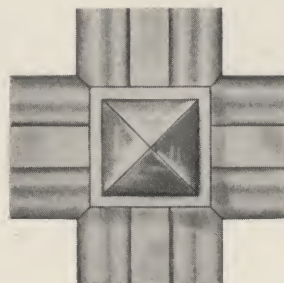
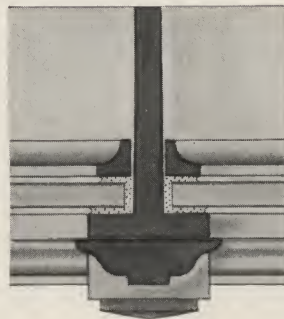
Detail showing Mouldings Nos. 4310, 4320, 4330 used for Corner Guards.

Ceiling Light

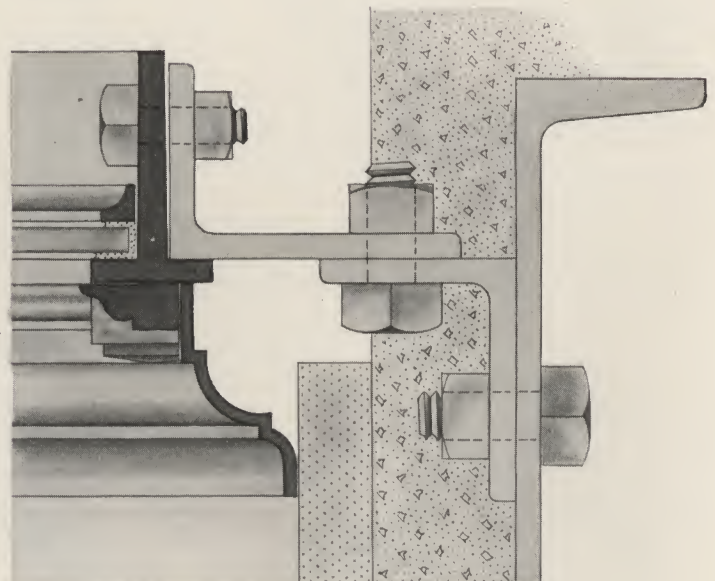
Specification: Two Angles in Z-shape connect ceiling light construction with beam or channel.

Glass Frame: Moulding No. 4649 with No. 4103 for glass stop.

Trim: Mouldings Nos. 4471 and 4451 mitred. Forged Nail No. 62 on square plate used as ornament on crosses. Moulding No. 4302 for plaster finish.

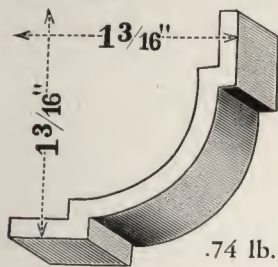


Inverted plan of intersection

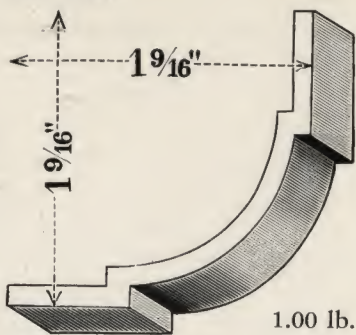


Details shown are ONE-HALF actual size.

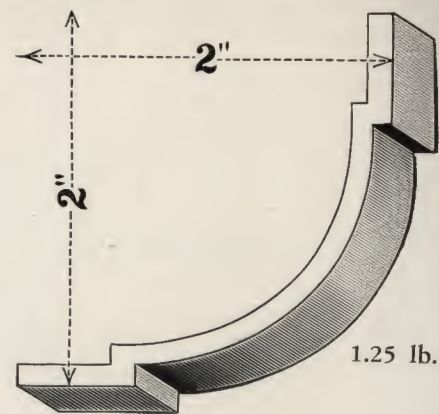
No. 4320



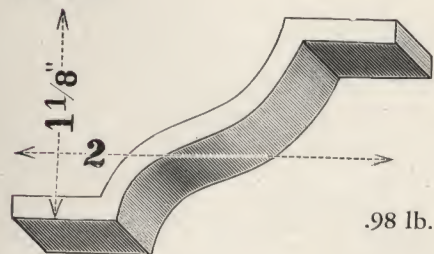
No. 4310



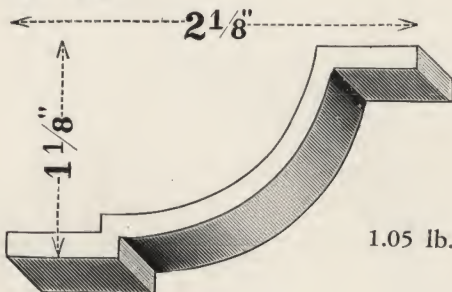
No. 4330



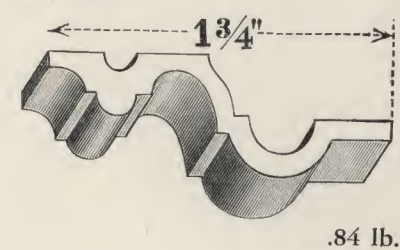
No. 4322



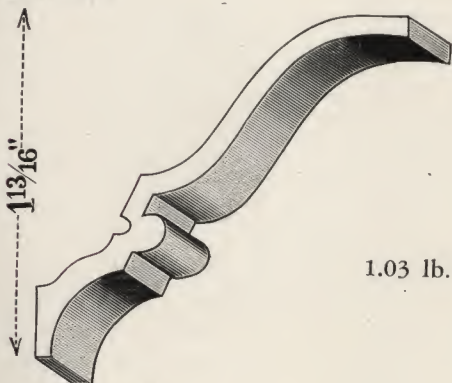
No. 4323



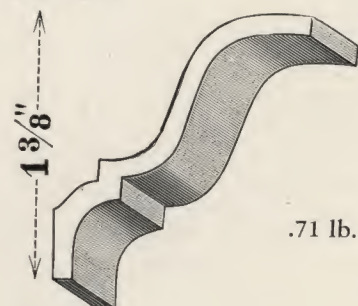
No. 4240



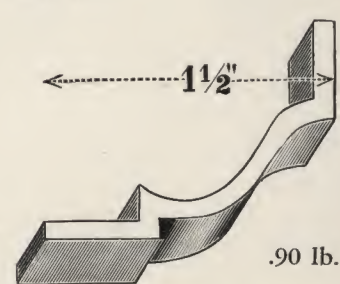
No. 4315



No. 4316



No. 4317



No. 5150

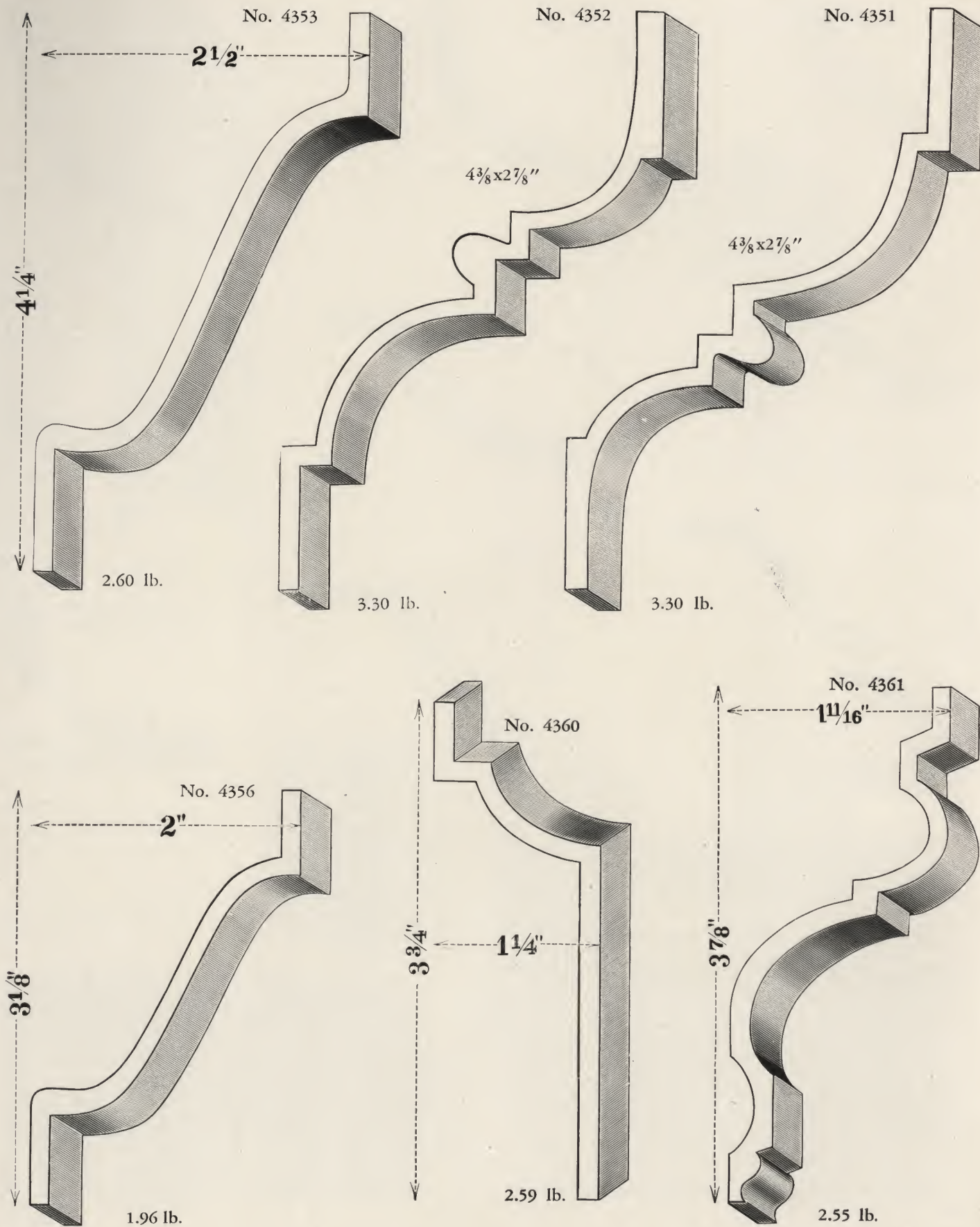


1.24 lb.

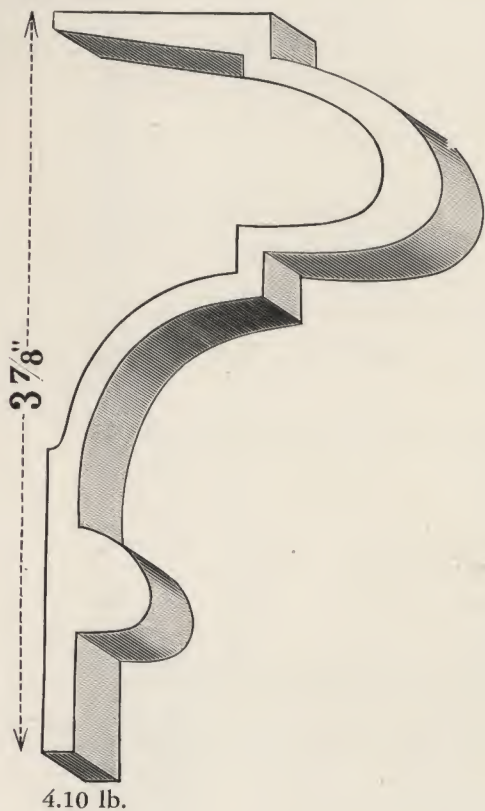
No. 5151



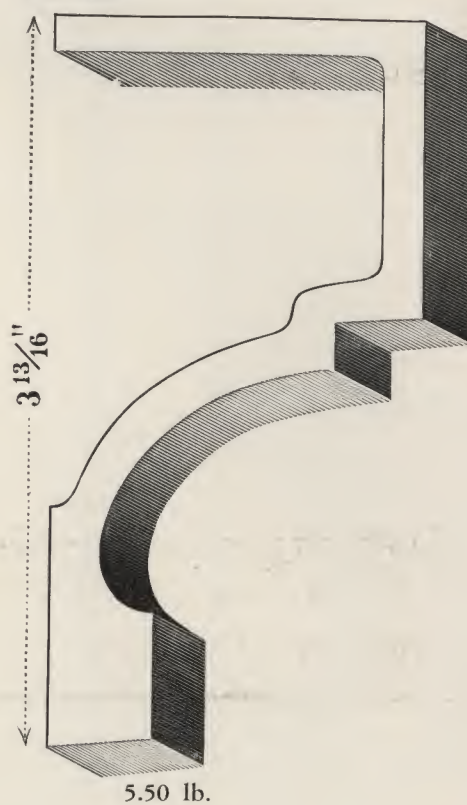
.76 lb.



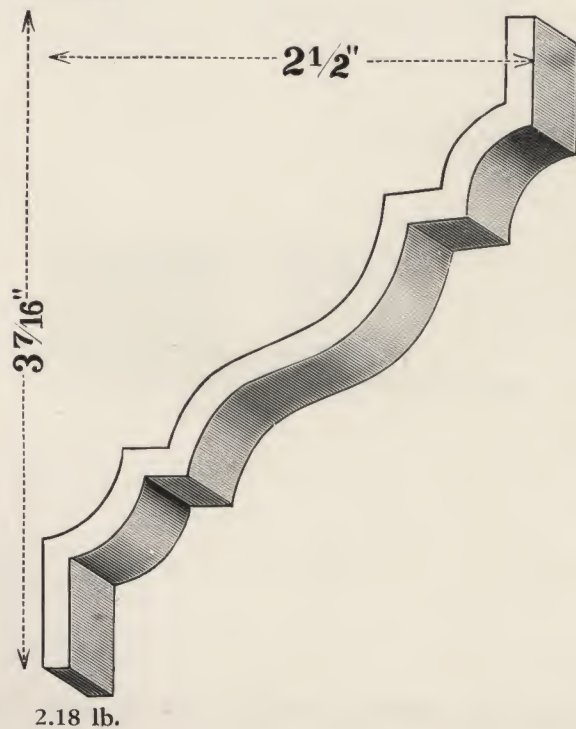
No. 4350



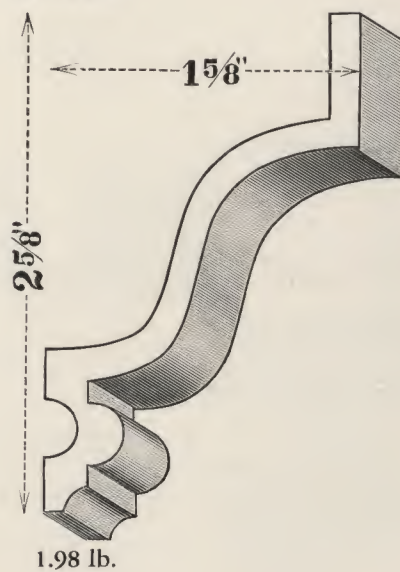
No. 4285

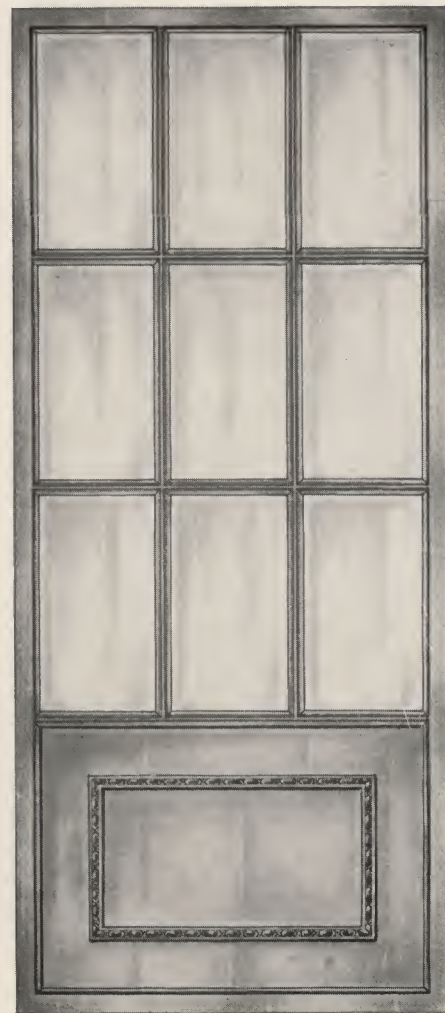
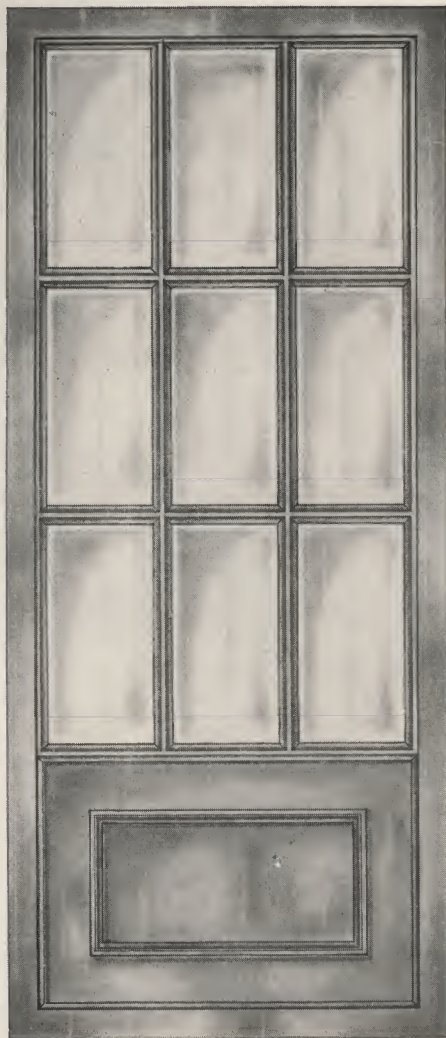


No. 4355

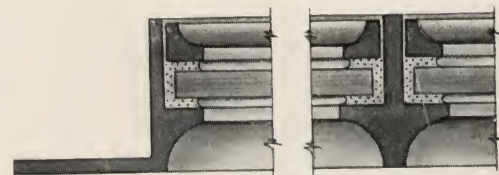
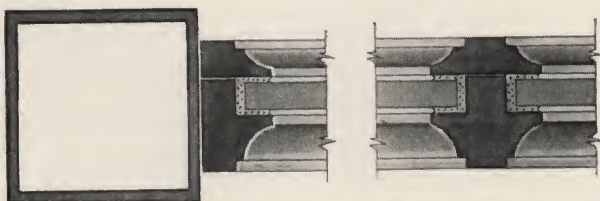


No. 4354





Elevator or Partition Doors



Details shown are ONE-HALF actual size.

Specification:

Frame: Cold Drawn Square or Rectangular Steel Tubing. Corners mitred and welded.

Glass Frame: Mouldings Nos. 4620, 4621, 4473 and 4474, mitred.

Panel: Plain or Ornamented Moulding.

Specification:

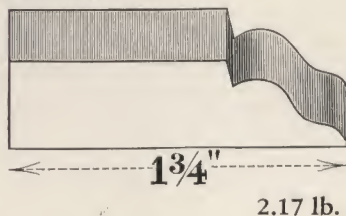
Frame: Moulding No. 4610 or No. 4612.

Glass Frame: Center No. 4600 or No. 4604 with Glass Stop No. 4101 or No. 4102.

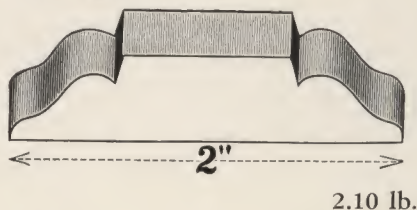
Panel: Plain or Ornamented Moulding.

Other Details of Door Constructions are shown on Pages No. 64-65-101-102.

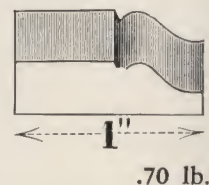
No. 4461



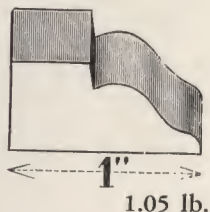
No. 4463



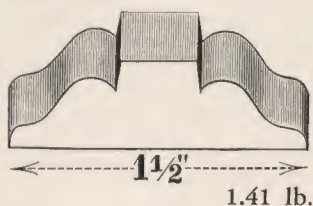
No. 4450



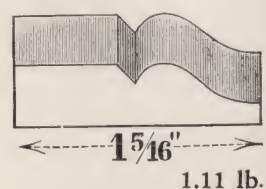
No. 4451



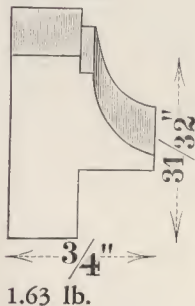
No. 4471



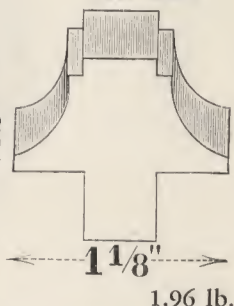
No. 4452



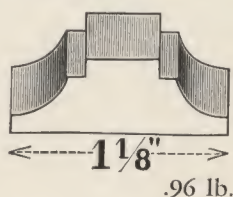
No. 4620



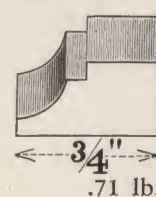
No. 4621



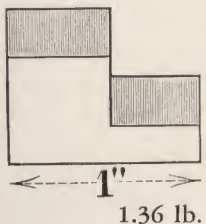
No. 4474



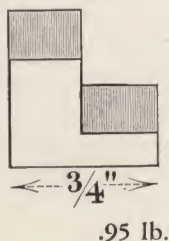
No. 4473



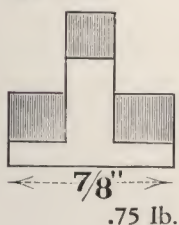
No. 4460



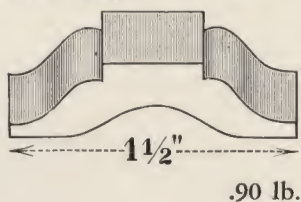
No. 4470



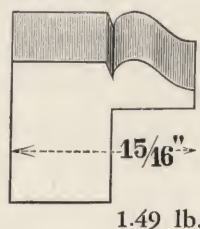
No. 4618



No. 4422



No. 4453

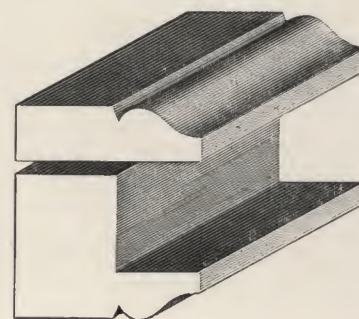


Attention is drawn to the fact that mouldings

No. 4461 and No. 4463
4451 " 4471
4473 " 4474
4620 " 4621

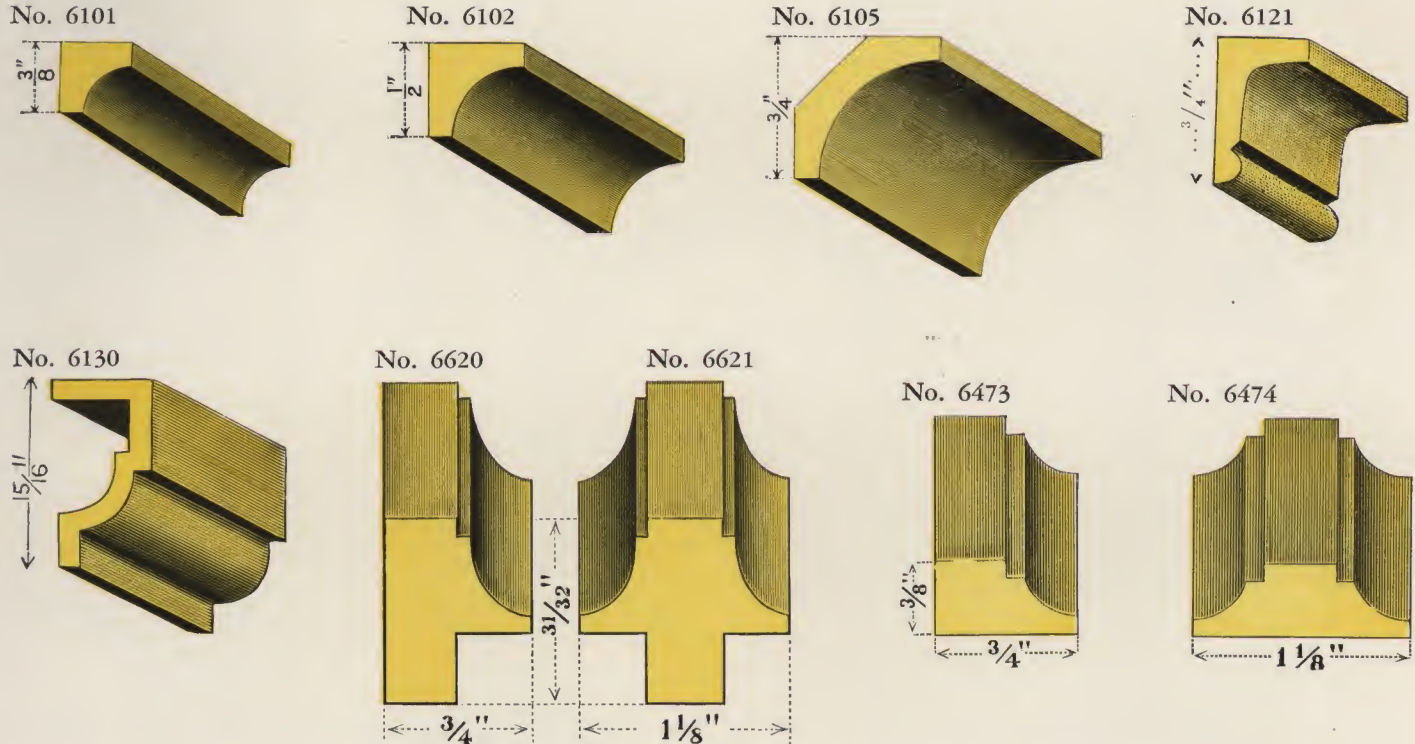
will form a perfect mitre.

Showing how Mouldings Nos. 4450 and 4453 are used to form a glass frame.



Architectural Bronze Mouldings

ARCHITECTURAL BRONZE SHAPES can be used to advantage for the construction of store fronts, bank screens, fixtures, furniture, signs, partitions, wall panels, doors, bucks, marquees and other ornamental bronze work. All Architectural Bronze Mouldings and Shapes are uniform in color. Mouldings are carried in stock in random lengths up to about 20 ft. long. We also furnish same cut to specified lengths.



Architectural Bronze Shapes

All shapes are *square edge* and *square root*.

Angles

1/2"	x	1/2"	x	1/8"
5/8"	x	5/8"	x	1/8"
3/4"	x	3/4"	x	1/8"
1"	x	1"	x	1/8"
1"	x	1"	x	3/16"
1 1/4"	x	1 1/4"	x	1/8"
1 1/2"	x	1 1/2"	x	1/8"
2"	x	2"	x	1/8"

Channels

1/2"	x	1/2"	x	3/32"
1"	x	1/2"	x	1/8"
1 1/4"	x	5/8"	x	1/8"
1 1/2"	x	5/8"	x	1/8"
2"	x	3/4"	x	1/8"
2 1/4"	x	7/8"	x	1/8"

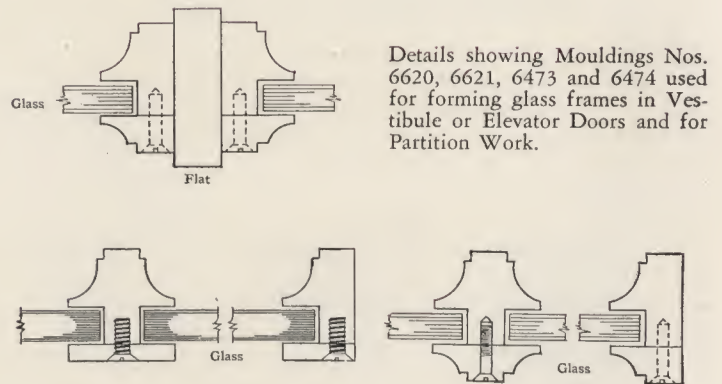
Tees

3/4"	x	3/4"	x	1/8"
1"	x	1"	x	1/8"

Flats

1/2"	x	3/16"
5/8"	x	3/16"
5/8"	x	1/4"
3/4"	x	3/16"
3/4"	x	1/4"
1"	x	3/16"
1"	x	1/4"
1 1/4"	x	3/16"
1 1/2"	x	3/16"
2"	x	3/16"
2"	x	1/4"
2 1/2"	x	3/16"
3"	x	3/16"
3"	x	1/4"

All Architectural Bronze Mouldings and Shapes are uniform in color.



Details showing Mouldings Nos. 6620, 6621, 6473 and 6474 used for forming glass frames in Vestibule or Elevator Doors and for Partition Work.

Architectural Bronze Saddles.....(See pages Nos. 69 to 85)

Architectural Bronze Handrails.....(See pages Nos. 8 and 9)

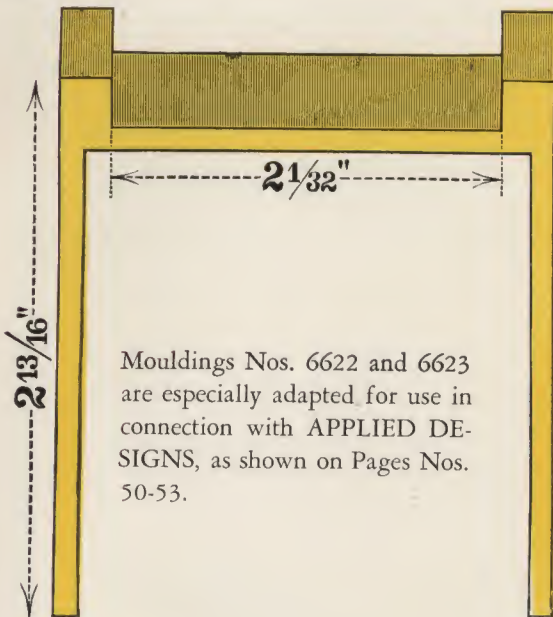
Architectural Bronze Edge Nosing.....(See page No. 31)

Architectural Bronze Fluted Flat Sections.....(See pages Nos. 23, 71, 83)

A large variety of shapes in
ARCHITECTURAL BRONZE and NICKEL SILVER
can be furnished from Mill.

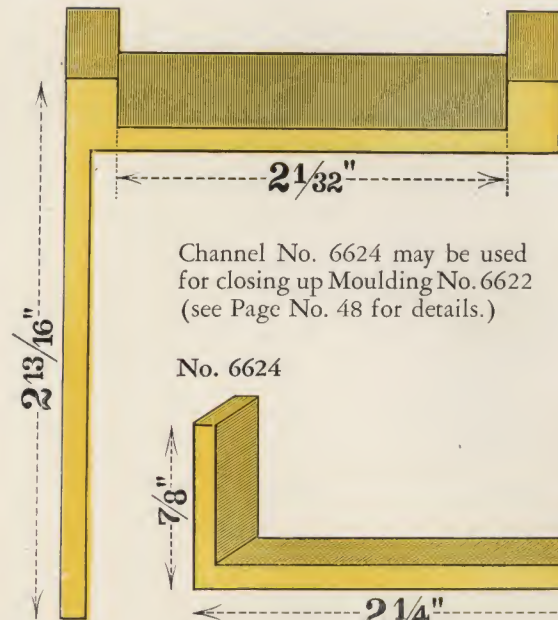
Architectural Bronze Mouldings

No. 6622



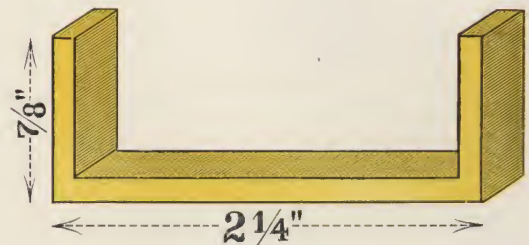
Mouldings Nos. 6622 and 6623 are especially adapted for use in connection with APPLIED DESIGNS, as shown on Pages Nos. 50-53.

No. 6623

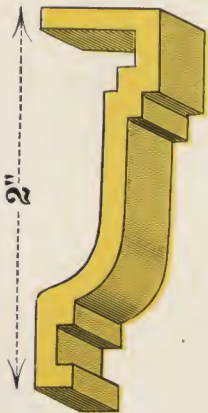


Channel No. 6624 may be used for closing up Moulding No. 6622 (see Page No. 48 for details.)

No. 6624



No. 6138

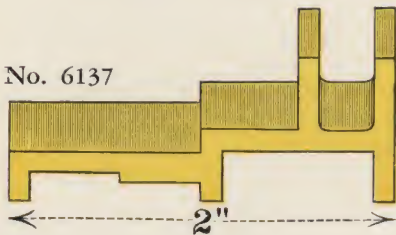


Architectural Bronze Mouldings Nos. 6622, 6623, 6137, 6136 and 6139 are especially suited for construction of Store Fronts, Bank Screens and Partitions.

Store Front Moulding
(with condensation gutter)

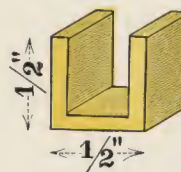
Typical construction details are shown on Pages Nos. 48, 52, 54, 55.

No. 6137

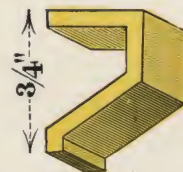


For Trim and for Glass Stop

No. 6139



No. 6136



Seamless Drawn Architectural Bronze Square and Rectangular Tubing

SQUARE

1/2"	x No. 16	B. W. G.
5/8"	x No. 16	"
3/4"	x No. 16	"
1"	x No. 16	"
1 1/4"	x No. 14	"
1 1/2"	x No. 14	"
2"	x No. 14	"

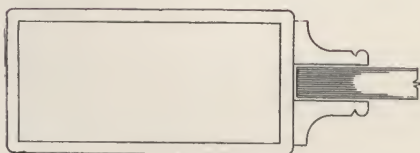
OUTSIDE MEASUREMENTS

RECTANGULAR

2"	x 1"	x No. 14	B. W. G.
2 1/2"	x 1 1/4"	x No. 14	"
3"	x 1 1/2"	x No. 14	"
3"	x 2"	x No. 14	"

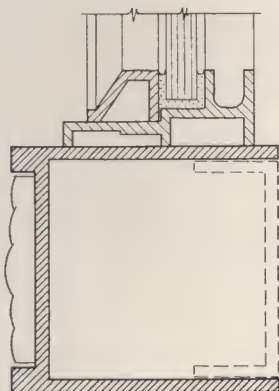
We can furnish from mill a large variety of sizes and gauges of square and rectangular Architectural Bronze Tubing.

ARCHITECTURAL BRONZE SQUARE AND RECTANGULAR TUBING MATCHES IN COLOR OUR ARCHITECTURAL BRONZE MOULDINGS



Showing the use of square and rectangular architectural bronze tubing with moulding No. 6121 for forming glass frames of vestibule and elevator doors and for partition work.

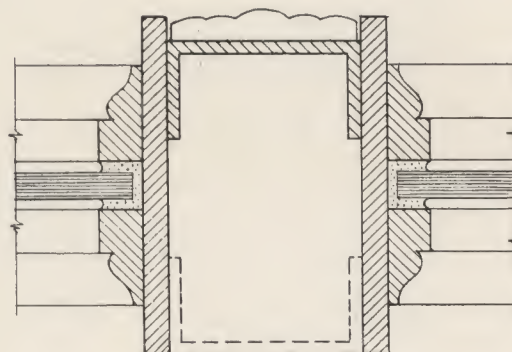
Mullion, Base and Corner Constructions



Sill constructed with Bronze Mouldings Nos. 6622, 6137, 6136 or Aluminum Mouldings Nos. 6942, 6937, 6936.

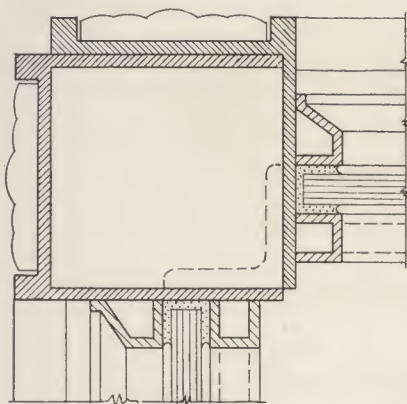
Channel in back may be recessed if plain panel effect or ornamentation on both sides is desired.

*Details are shown
ONE-HALF
actual size.*

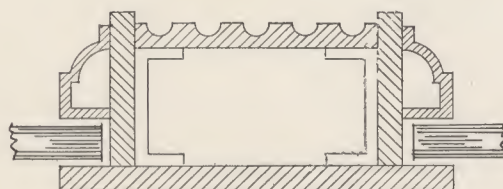


Mullions or transoms of any desired width or depth may be constructed by using Channels (or Angles and Plates). Suitable Mouldings are used for Glass Stops.

The Channel in back of the Mullion may be recessed if plain panel effect or ornamentation on both sides is desired.



Corner constructed with Bronze Mouldings Nos. 6622, 6623, 6136, 6139 or Aluminum Mouldings Nos. 6942, 6943, 6936, 6956.



Showing similar construction as above with plain flat bar in back used as Glass Stop.

All the constructions shown may be ornamented with APPLIED DESIGNS and Rosettes as shown on Pages Nos. 50-53 or with Flat Fluted Mouldings as shown on Page No. 23.

Strikingly beautiful effects may be produced by combining steel, bronze and aluminum shapes.

Seamless Drawn Square and Rectangular Aluminum Tubing

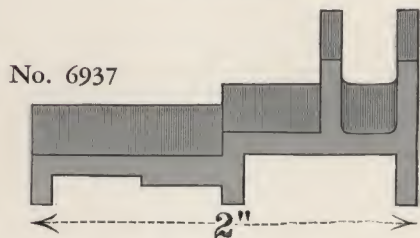
We can furnish from mill a large variety of sizes and gauges of Seamless Drawn Square and Rectangular Aluminum Tubing with sharp or with rounded corners. Also Round, Oval and odd shapes of Tubing.

Extruded Aluminum Shapes

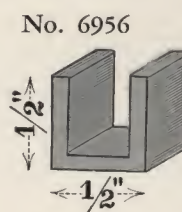
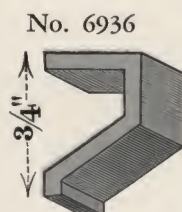
We are prepared to furnish from mill Extruded Aluminum Sections of every shape and alloy. Tools are available at the mill for a large variety of shapes and, in addition, we can make up special dies to customer's specification.

Aluminum Mouldings

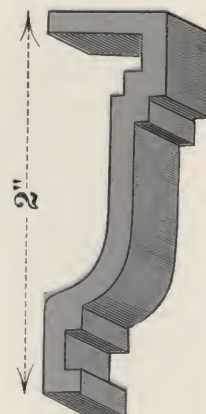
Store Front Moulding
(with condensation gutter)



For Trim and for Glass Stop



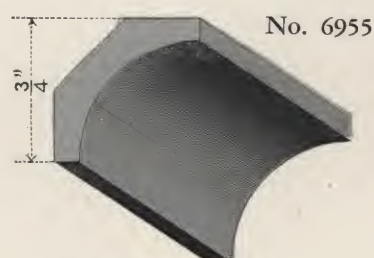
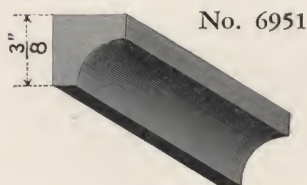
No. 6938



See Pages Nos. 48, 52, 55 for illustrations showing various construction details

We carry in stock: ALUMINUM MACHINE SCREWS, Countersunk Flat Head
 $\frac{1}{4}$ " No. 20—1" long $\frac{1}{4}$ " No. 20—1 $\frac{1}{2}$ " long $\frac{1}{4}$ " No. 20—1 $\frac{1}{4}$ " long

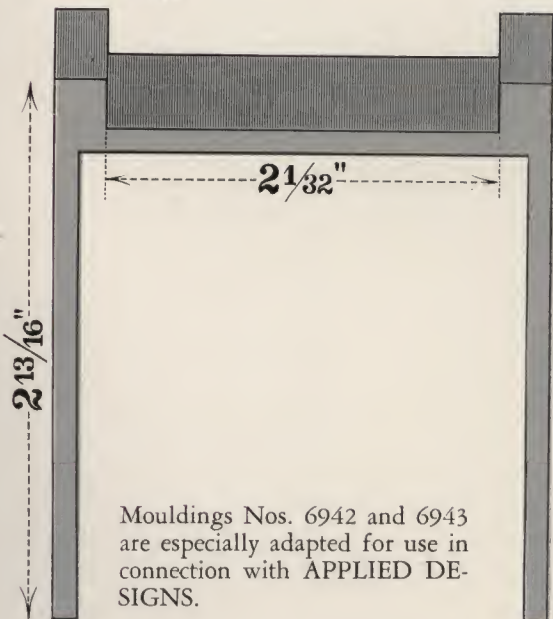
COVE MOULDINGS AND GLASS STOPS



Aluminum Mouldings Nos. 6942, 6943, 6937, 6936 and 6956 are especially suited for construction of Store Fronts, Bank Screens and Partitions.

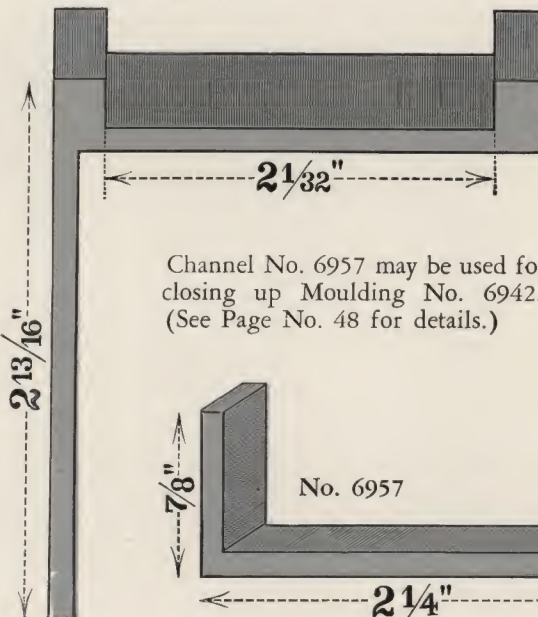
Typical construction details are shown on Pages Nos. 48, 52, 54, 55.

No. 6942

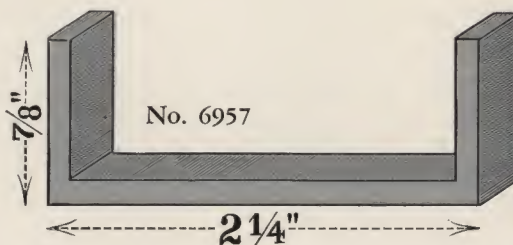


Mouldings Nos. 6942 and 6943 are especially adapted for use in connection with APPLIED DESIGNS.

No. 6943



Channel No. 6957 may be used for closing up Moulding No. 6942. (See Page No. 48 for details.)



Applied Designs

Ornamentation of exceptionally fine character may be achieved by using APPLIED DESIGNS and ROSETTES, together with Mouldings and Shapes. Some examples, illustrating how this material may be advantageously used for the construction of Store Fronts, Bank Screens, Posts, etc., are shown on Pages Nos. 21, 52, 54, 55.

APPLIED DESIGNS may be used for decorative purposes for almost any kind of ornamental work, for furniture, signs, mirrors, etc., also for panels in marble, wood, plaster, etc.

ALL APPLIED DESIGNS and ROSETTES shown can be furnished from stock in *CAST IRON*, *ARCHITECTURAL BRONZE* and *ALUMINUM*.

APPLIED DESIGNS are a *finished product*, requiring no further labor than drilling and fitting together.

All APPLIED DESIGNS and Rosettes match in color our Architectural Bronze or Aluminum Shapes

APPLIED DESIGNS as shown may be used in short sections (by finishing end pieces) or as a continuous pattern. Corners may be formed by mitering or by using ROSETTES to match.

APPLIED DESIGNS are particularly effective when used together with Architectural Bronze Shapes Nos. 6622 and 6623, or Aluminum Shapes Nos. 6942 and 6943, or with Cold Drawn Steel Shapes or Rolled Steel Mouldings.

The beauty of the design may be greatly enhanced by combining steel, bronze and aluminum shapes.

APPLIED DESIGNS — ROSETTES



No. 6201

No. 6202

No. 6203

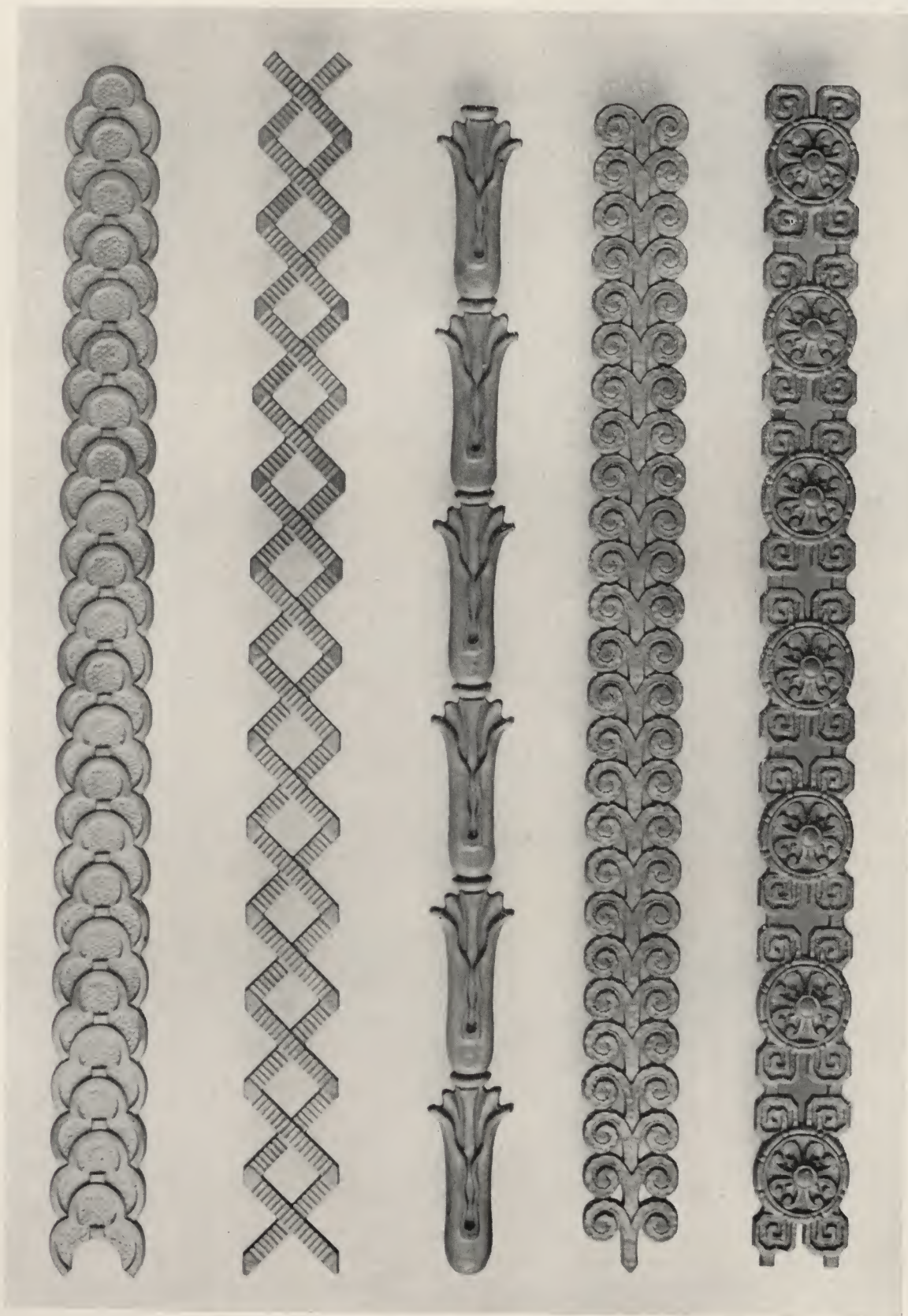
Illustrations are shown ONE-THIRD actual size.

Rosettes Nos. 6201, 6202, 6203 can be furnished from stock in Cast Iron, Architectural Bronze and Aluminum. They may be used for forming corners for panels, or for other decorative purposes.

Applied Designs

All Applied Designs and Rosettes can be furnished in Cast Iron, Architectural Bronze and Aluminum

For Details of Construction Refer to Pages Nos. 21, 52, 54, 55
ALL APPLIED DESIGNS and Rosettes match in color our Architectural Bronze or Aluminum shapes.



No. 6210

No. 6211

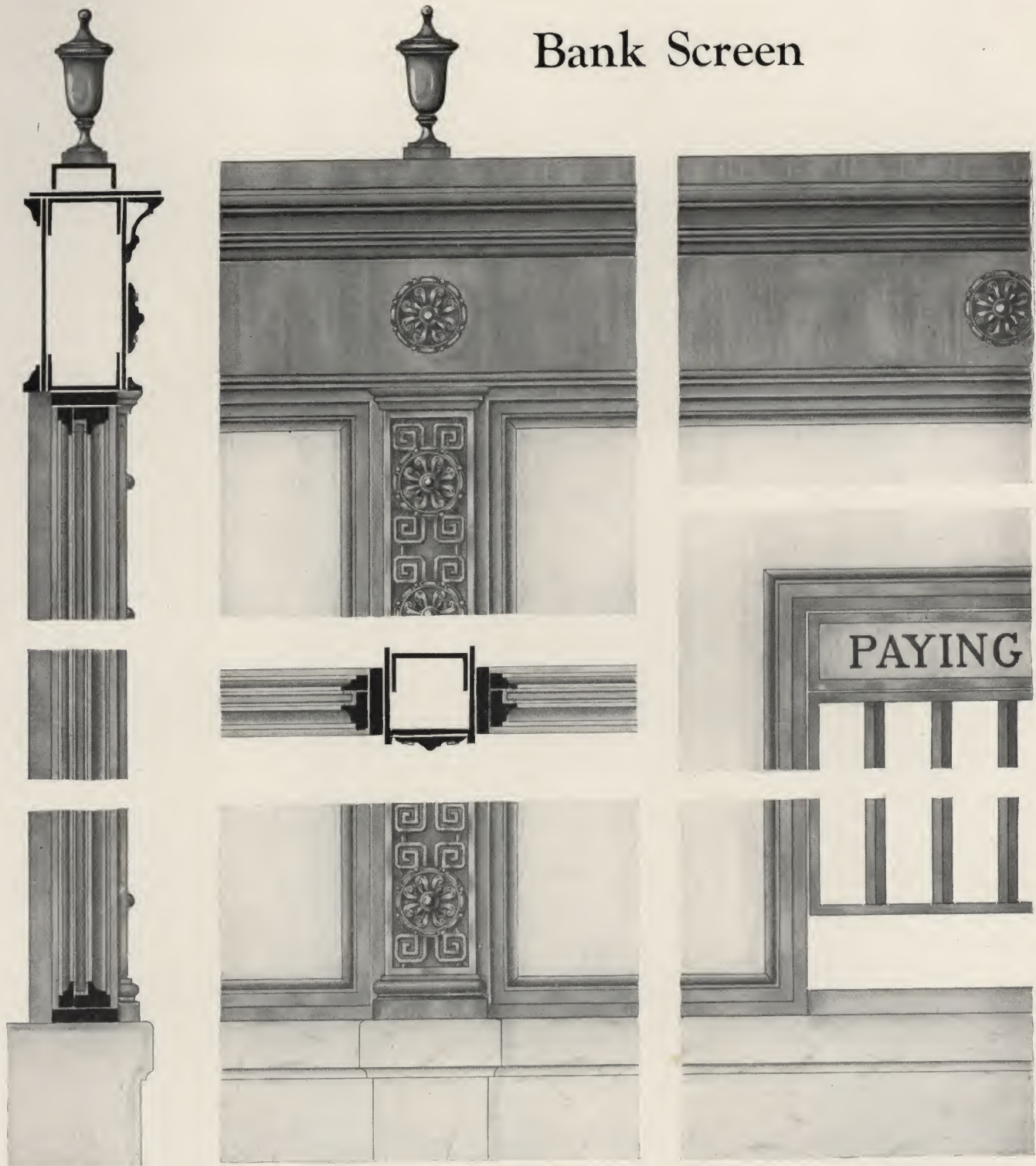
No. 6212

No. 6213

No. 6214

Illustrations are shown ONE-THIRD actual size.

Bank Screen



This or similar constructions may be executed quickly and at reasonable cost with steel, bronze or aluminum shapes, ornamented with Applied Designs and Rosettes (Pages Nos. 46 to 55).

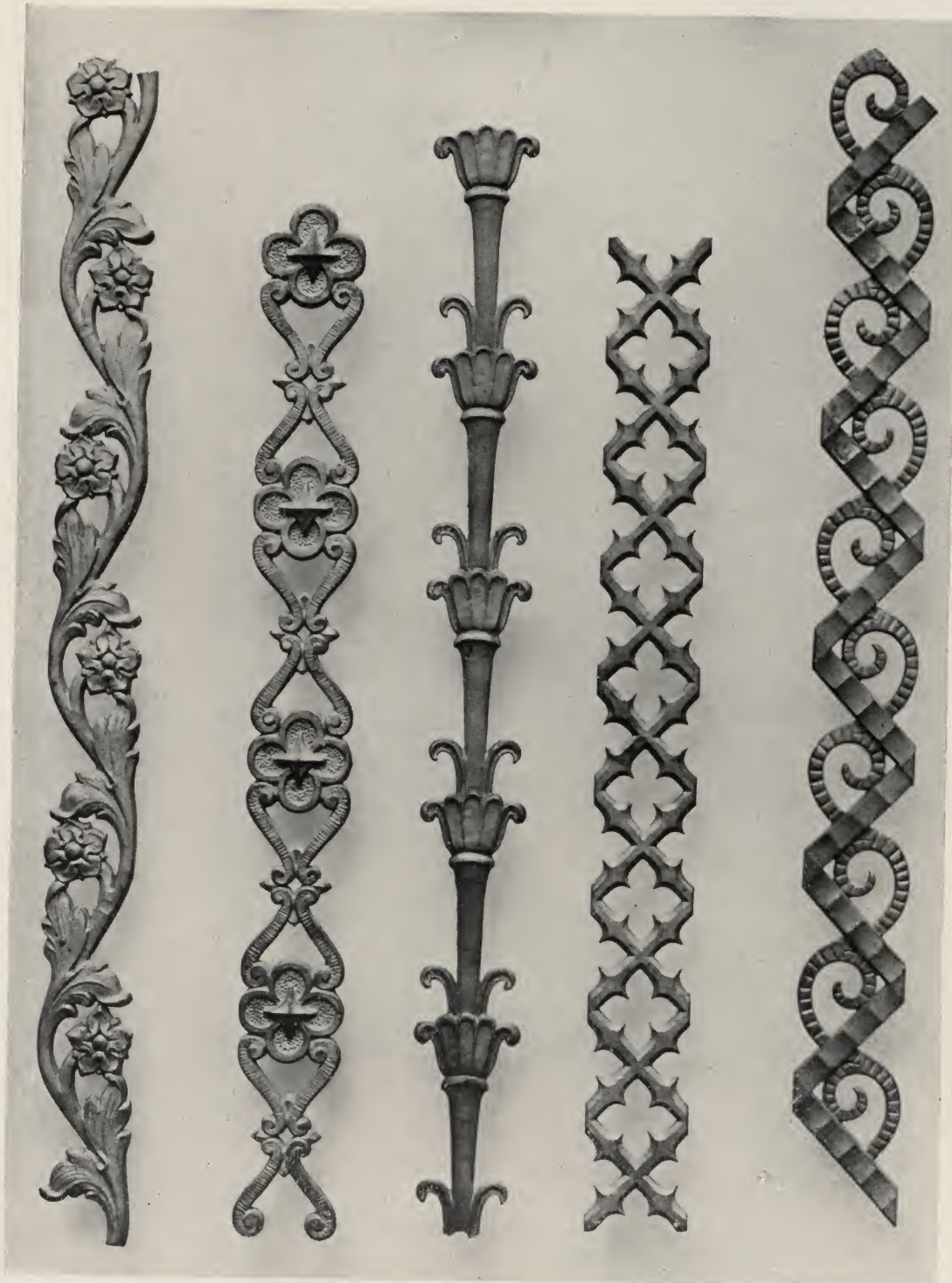
Beautiful effects may be produced by combining steel, bronze and aluminum shapes.
For various mullion and corner constructions, see details on Page No. 48.
Polished Bronze Urn No. 402 used on top.

Applied Designs

All Applied Designs and Rosettes can be furnished in Cast Iron, Architectural Bronze and Aluminum

For Details of Construction Refer to Pages Nos. 21, 52, 54, 55

ALL APPLIED DESIGNS and Rosettes match in color our Architectural Bronze or Aluminum shapes.



No. 6215

No. 6216

No. 6217

No. 6218

No. 6219

Illustrations are shown ONE-THIRD actual size.



Ornamental Door

Strikingly beautiful effects may be produced by combining steel, bronze and aluminum shapes, ornamented with Applied Designs and Rosettes (as shown on Pages Nos. 50-53).

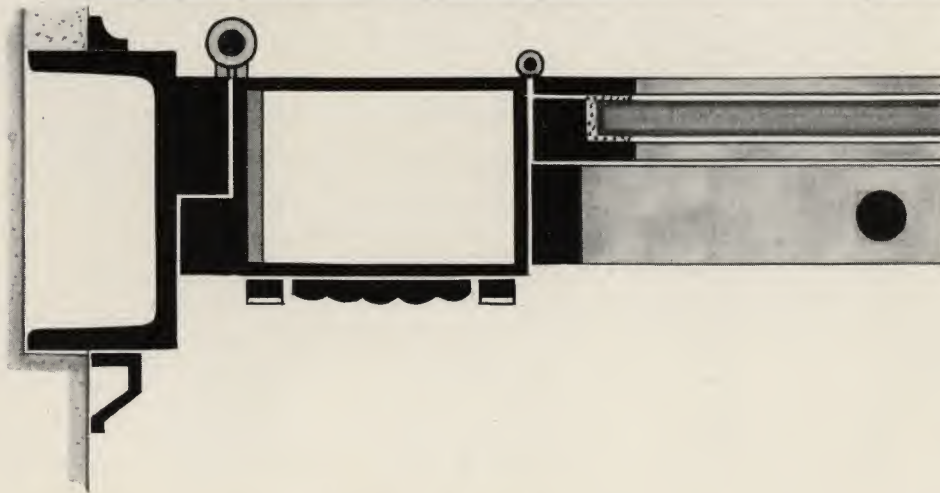
For further details of Door Constructions, see Pages Nos. 44, 64, 65, 101, 102.

Detail of Door and Jamb

Rolled Steel Moulding No. 5301 forms panel for Applied Design and Rosettes.

Door Frame: Cold Drawn Rectangular Steel Tubing. Extra Heavy Ball Bearing Plain Steel Butts.

Glass Frame: No. 4460. Round Steel or Brass Collars on Grille Frame.



Detail: ONE-HALF actual size

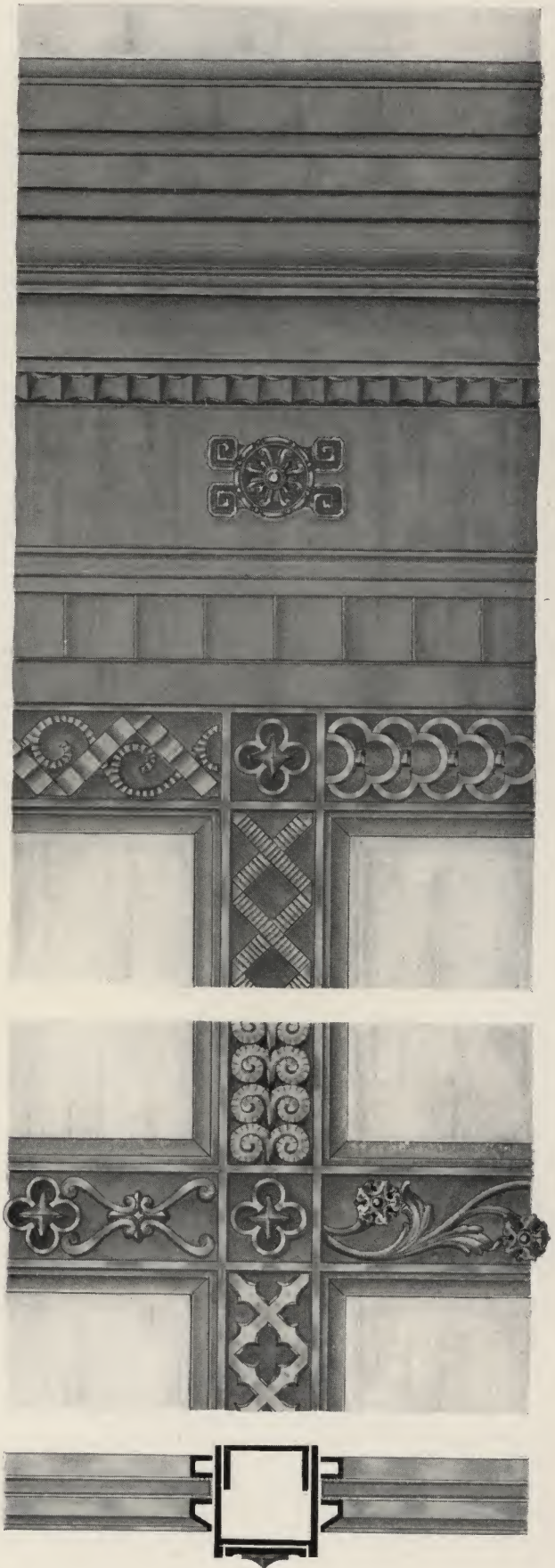
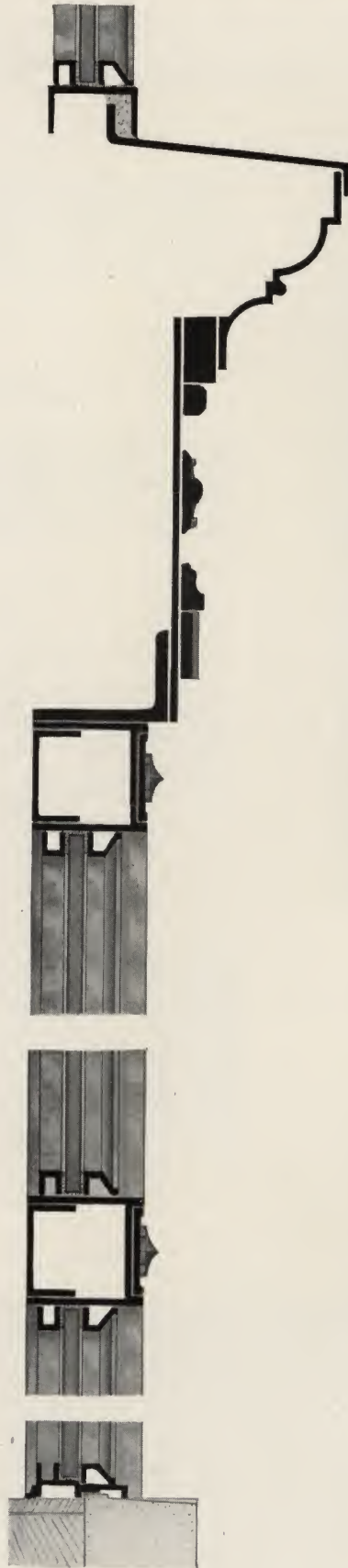
Cornice and Store Front Construction

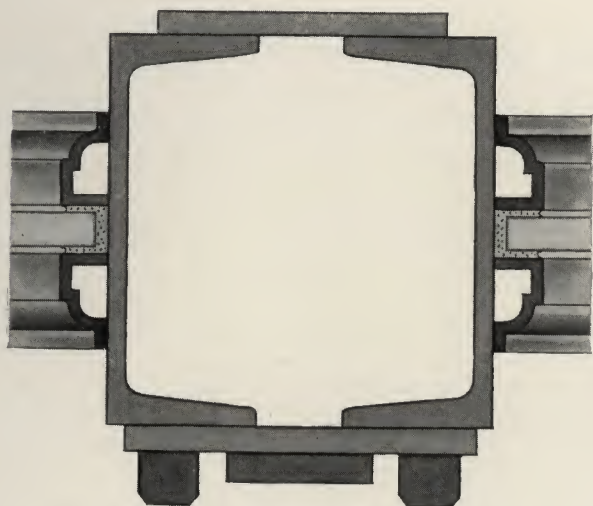
A great variety of constructions may be produced in this or a similar manner by using steel, bronze and aluminum shapes, ornamented with Applied Designs and Rosettes (as shown on Pages Nos. 50-53).

The variety of patterns of Applied Designs are shown merely for the purpose of illustrating their appearance, not as a suggestion that they should be used in the combination as shown here.

The beauty of the design may be greatly enhanced by combining steel, bronze and aluminum shapes.

For various mullion and corner constructions, see details on Page No. 48.





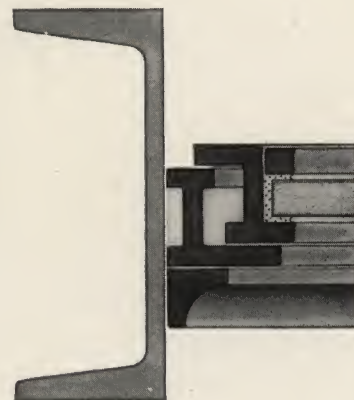
MULLION

Two Channels and Plates forming square or rectangular Mullion with moulded offsets.

Mouldings Nos. 5303 and 5308 used for trim on face member.

Stationary glass frame No. 4130.

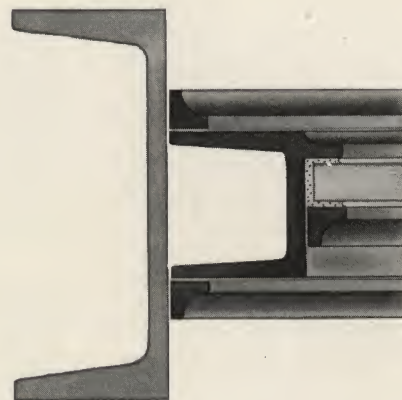
APPLIED DESIGNS as shown on Pages Nos. 50-53 may be used for ornamentation in a similar manner.



Construction of similar Mullion as shown on left by using No. 4629 and No. 4627 (above) for swinging glass frame.

(Below) with Mouldings Nos. 4624 and 4101 for stationary glass frame.

Moulding No. 4110 used for Scribe Moulding.

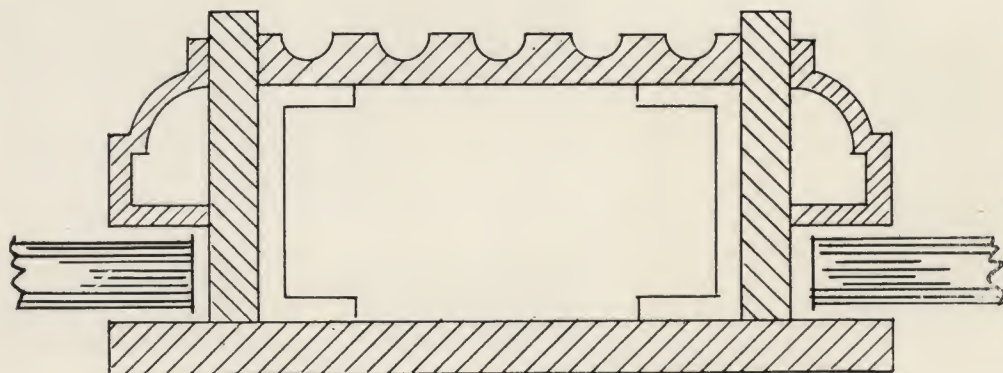


MULLION

Specification:

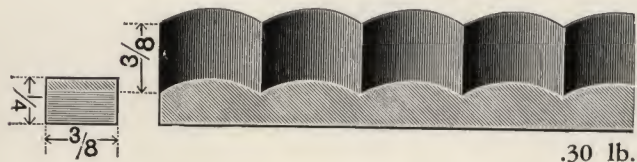
Two cold-rolled square edge steel flats and two channels with plate to form glass stop in back. Flat fluted moulding No. 4542 in center, No. 4130 forming glass stop. If ornamentation on both sides is desired, flat fluted Moulding No. 4542 and Moulding No. 4130 are used on both sides.

Square Panels at ends and at corners may be formed by flat bars, with rosette or forged nail in center.

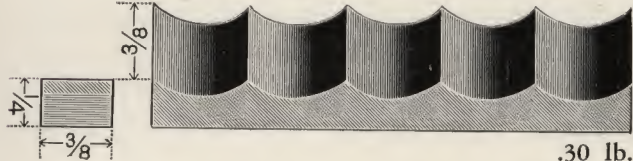


Modernistic Designs

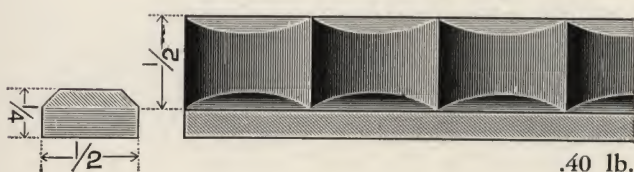
No. 5300 $\frac{3}{8}$ " wide x $\frac{1}{4}$ " high



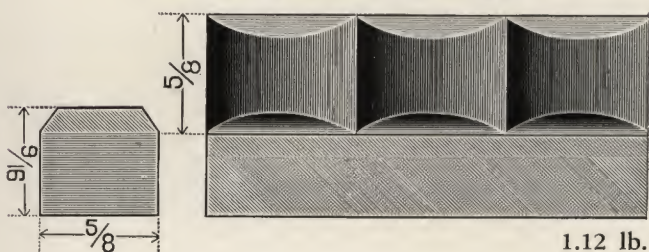
No. 5301 $\frac{3}{8}$ " wide x $\frac{1}{4}$ " high



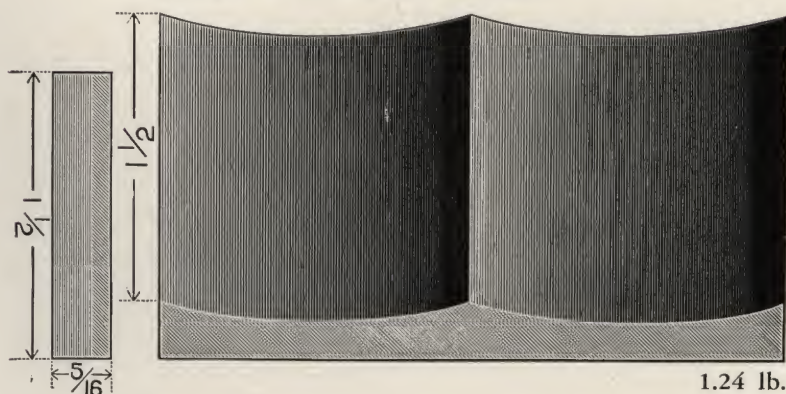
No. 5302 $\frac{1}{2}$ " wide x $\frac{1}{4}$ " high



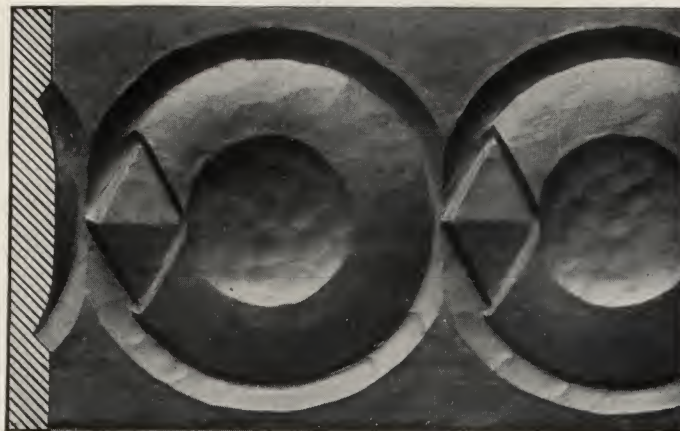
No. 5303 $\frac{5}{8}$ " wide x $\frac{9}{16}$ " high



No. 5308 $1\frac{1}{2}$ " wide x $\frac{5}{16}$ " high

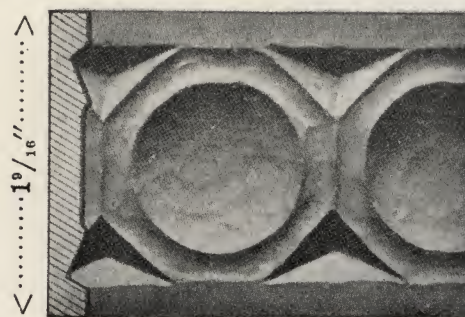


No. 5305



1.46 lb.

No. 5306



.96 lb.

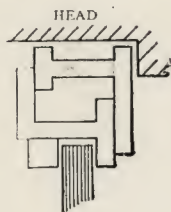
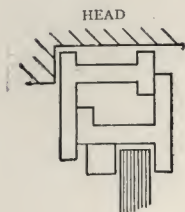
On account of the simplicity of their design, these mouldings harmonize with plain and angular members used for iron work in the modern manner. These mouldings also lend themselves advantageously to ornamental work showing a combination of iron with brass, bronze, aluminum, etc.

Especially suited for work showing natural iron finish or for chromium or cadmium plating.

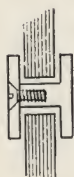
Details of CASEMENT WINDOWS constructed with the use of Mouldings Nos. 4627, 4628, 4629, 4618

OPENING IN

OPENING OUT



If division of the glass pane into squares is desired we recommend the use of Moulding No. 4618



The various methods of construction of ROLLED STEEL CASEMENTS shown are suggestions showing the manner in which our sections may be used.

These Mouldings are suitable for the construction of all types of windows or casements or doors:

SIDE HINGED

TOP HINGED

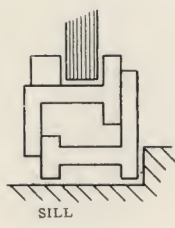
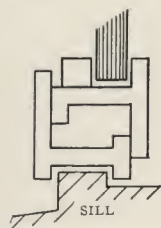
BOTTOM HINGED

HORIZONTAL OR VERTICAL PIVOTED

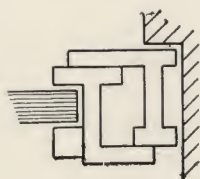
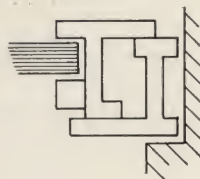
FRENCH FOLDING CASEMENTS

FRENCH FOLDING DOORS

BANK WINDOWS



with and without transom and with or without centre mullion, opening inward or outward, with glazing on inside or outside.

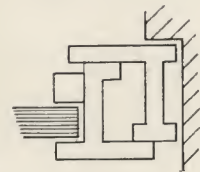
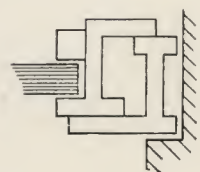


JAMB (OPENING IN)

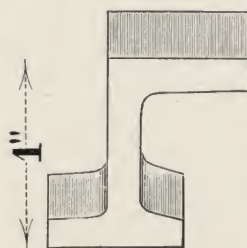
JAMB (OPENING OUT)

(Above) For Outside Glazing
(Below) For Inside Glazing

(Above) For Outside Glazing
(Below) For Inside Glazing

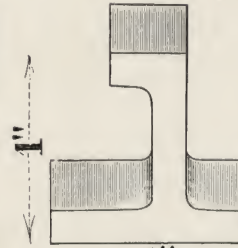


No. 4627



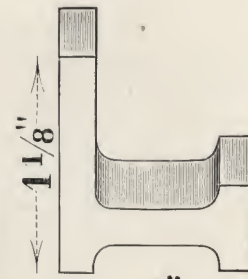
1.23 lb.

No. 4628



1.24 lb.

No. 4629

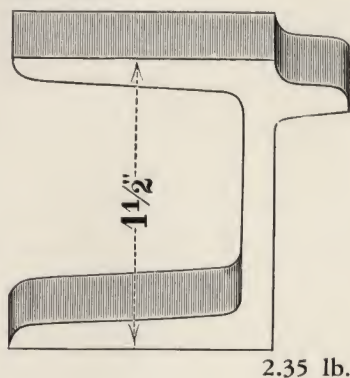


1.31 lb.

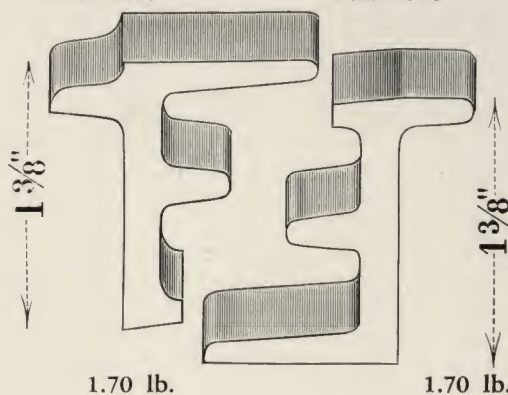
Details are shown ONE-HALF actual size.

Rolled Steel Casement Mouldings

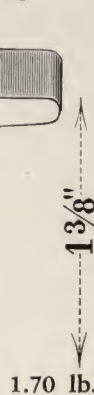
No. 4624



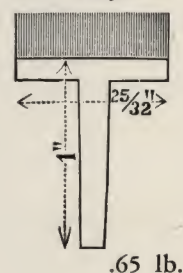
No. 4625



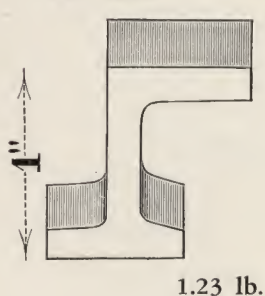
No. 4626



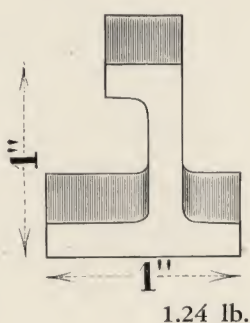
No. 4619



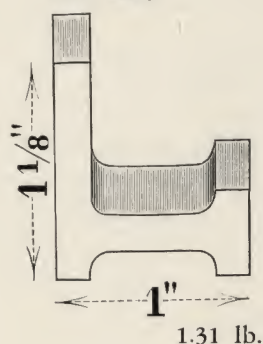
No. 4627



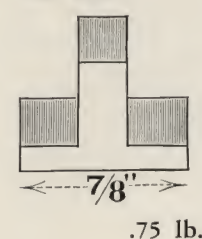
No. 4628



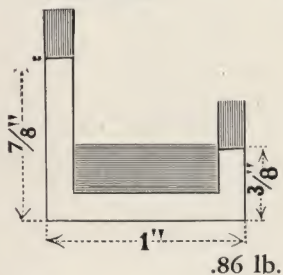
No. 4629



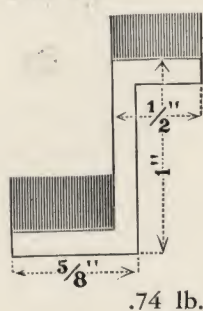
No. 4618



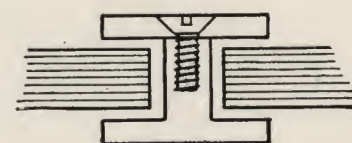
No. 4650



No. 4722



Method of constructing: Glass Frame with Moulding No. 4618 and Flat Bar.



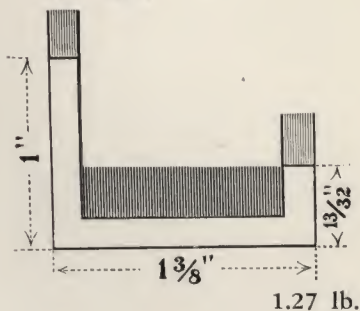
VENTILATOR FRAME

No. 4650 and No. 4722

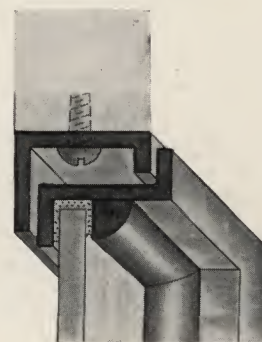
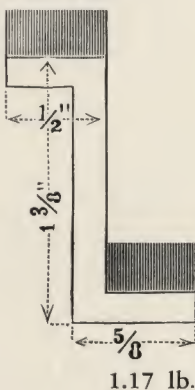
No. 4656 " No. 4655

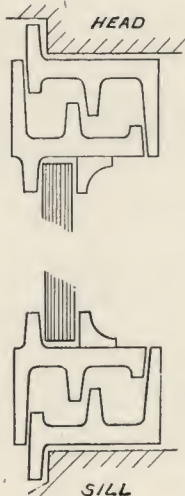
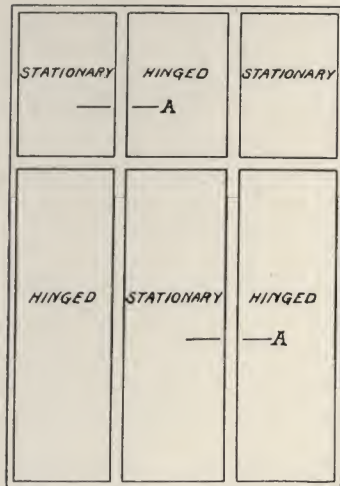
Glass Stop No. 4485 or 4486

No. 4656



No. 4655





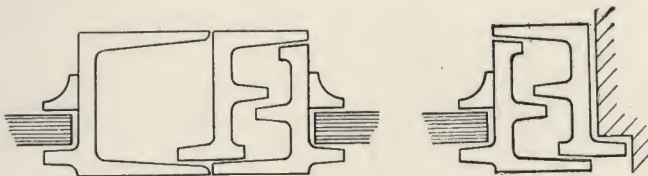
Detail of Composite Casement (Opening Out)

Glazing may be arranged both inside or outside.

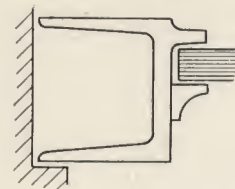
Composite Casements (opening in) may be constructed in a similar manner by reversing the sections.

If division of the glass pane into squares is desired, we recommend the use of our Mouldings No. 4619 and No. 4618.

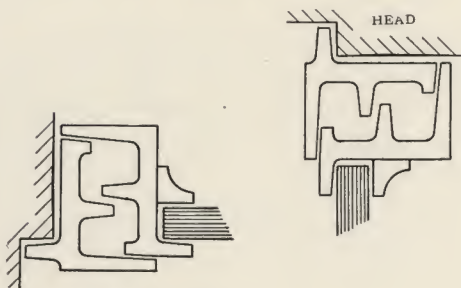
MULLION "A" (TRANSOM SIMILAR)



STATIONARY SECTION



DETAIL OF PIVOTED CASEMENT



Jamb Above Center
(One Side)

Jamb Below Center
(Other Side)

For Construction of Ventilators
we recommend Mouldings No.
4650, 4722, 4655, 4656.

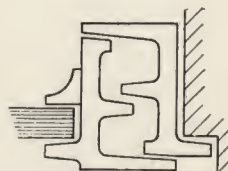
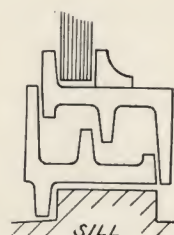
No. 4650 and No. 4722



No. 4656 and No. 4655



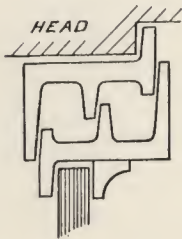
Glazing may be arranged
both inside and outside.



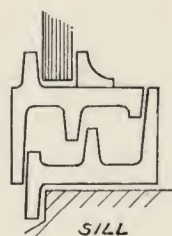
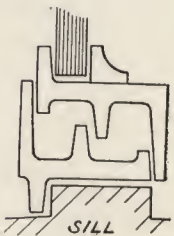
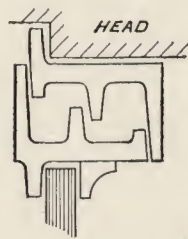
Details are shown ONE-HALF actual size

Details of CASEMENT WINDOWS constructed with the use of Mouldings Nos. 4624, 4625, 4626, 4618, 4619 and 4101

OPENING IN



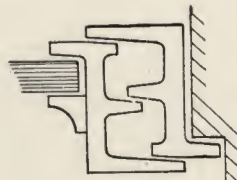
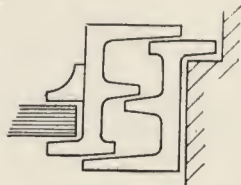
OPENING OUT



These mouldings are suited for the construction of large windows, casements and glass doors.

They are designed to form a perfect, weather-tight joint on all sides. The inner members or legs (third contact point) act as baffle members, forming two separate air chambers, effectually shutting out air currents or moisture. They reinforce and stiffen the frame without interfering with the proper hanging or operating of the casement.

Details are shown ONE-HALF actual size.

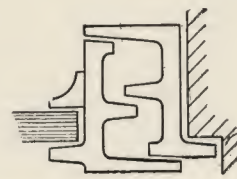
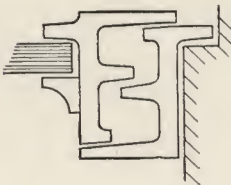


JAMB (OPENING IN)

(Above) Arranged for Inside Glazing
(Below) Arranged for Outside Glazing

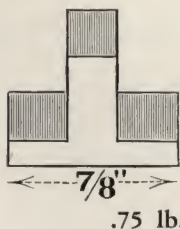
JAMB (OPENING OUT)

(Above) Arranged for Outside Glazing
(Below) Arranged for Inside Glazing

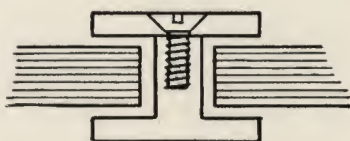


If division of the glass pane into squares is desired we recommend the use of Mouldings No. 4618 and No. 4619.

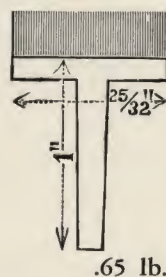
No. 4618



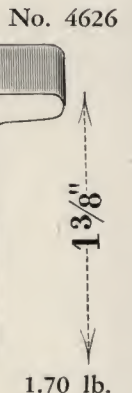
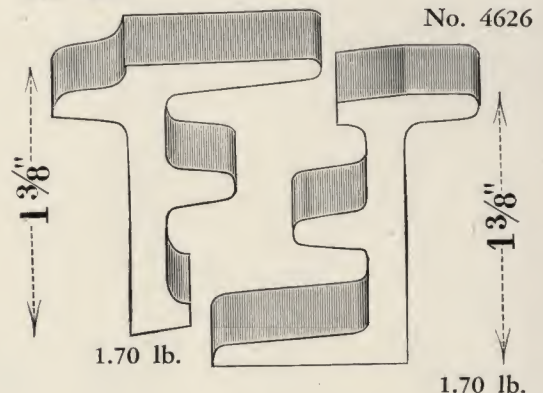
No. 4618



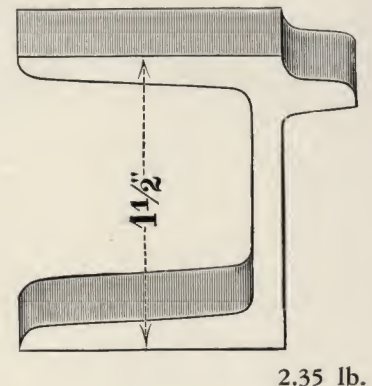
No. 4619



No. 4625

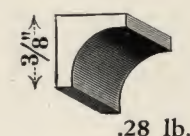


No. 4624

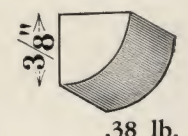


FOR GLASS STOP

No. 4101

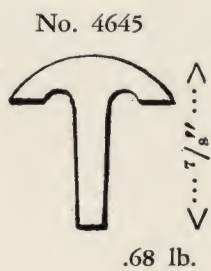
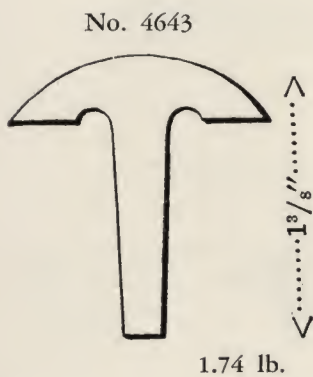
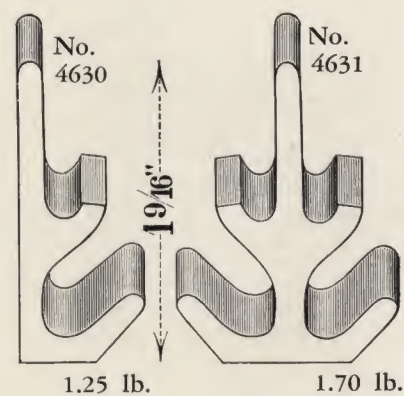
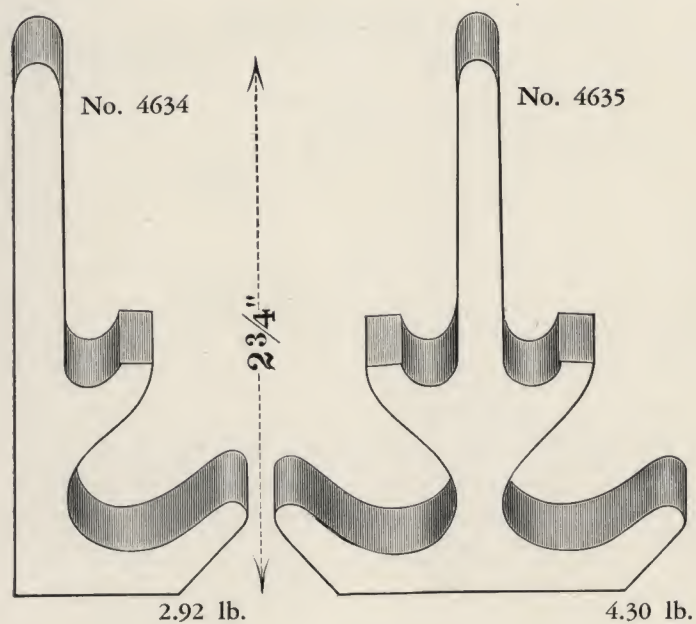
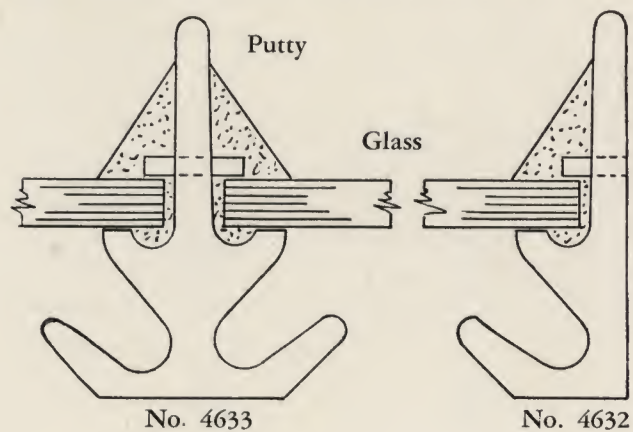
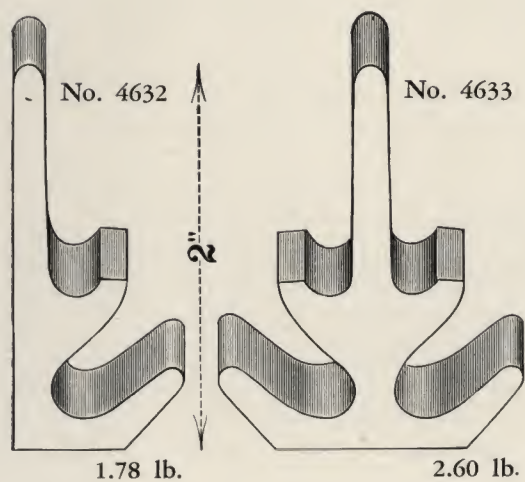


No. 4485

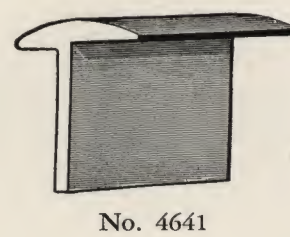
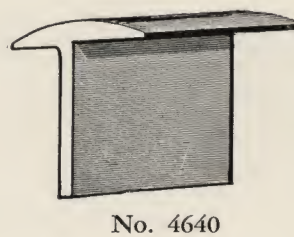


Rolled Steel Skylight Bars

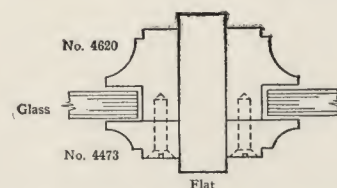
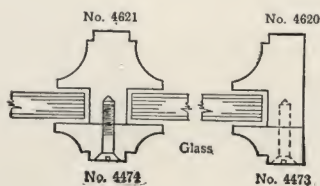
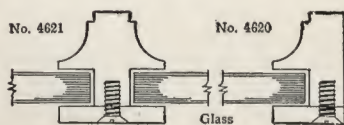
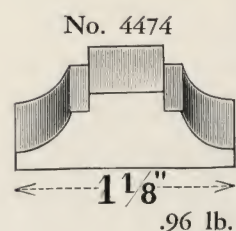
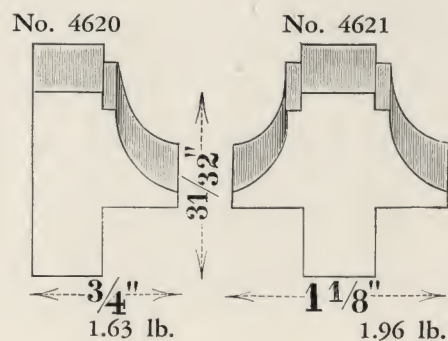
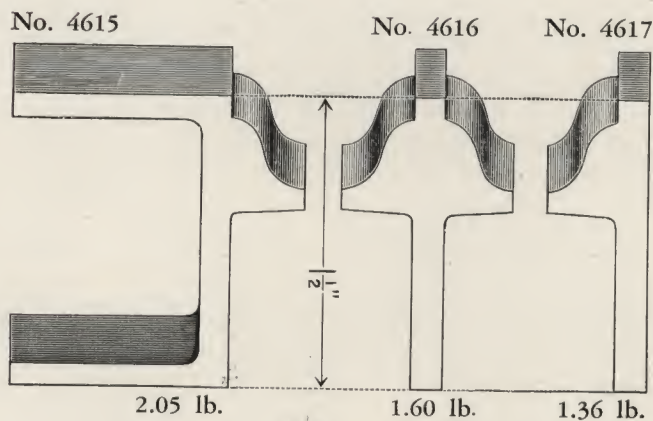
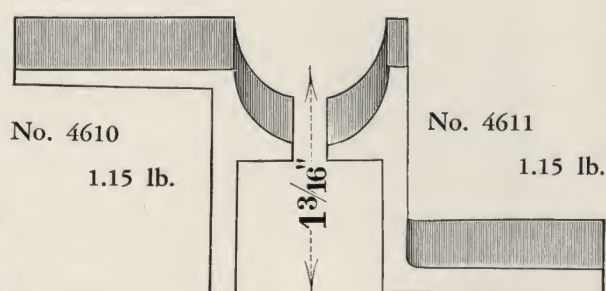
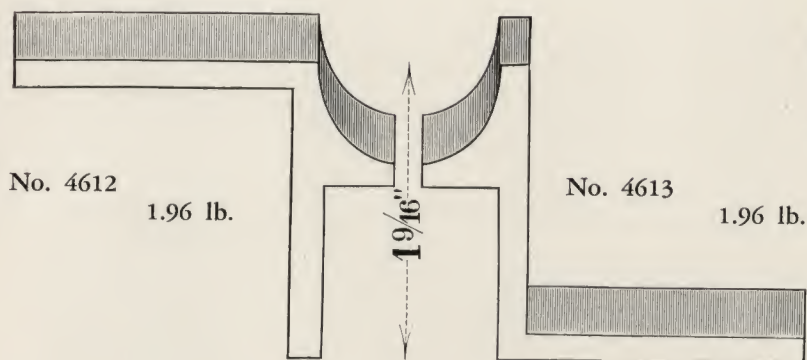
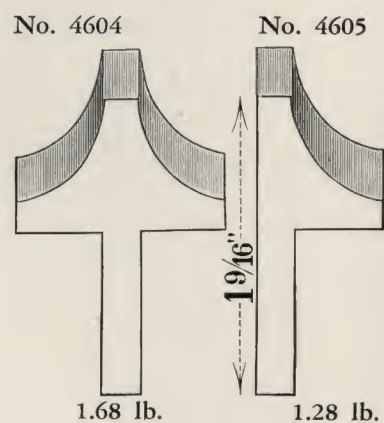
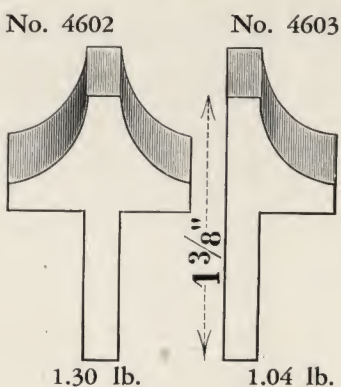
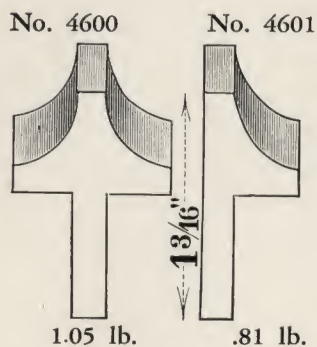
CONSTRUCTION OF ROLLED STEEL SKYLIGHT,
USING MOULDINGS NO. 4632 AND 4633



FOR STRIKING BARS



Mouldings for Glass Constructions



Showing how sections No. 4620 and No. 4621 are used for forming glass frames in vestibule and elevator doors and for partition work.

If Moulding is required both inside and outside use No. 4473 and No. 4474 for glass stops.

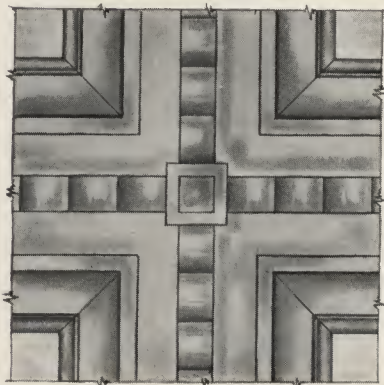
Showing Moulding No. 4620 forming a reinforced mullion bar.

A flat bar of any desired size or rectangular tubing may be used in this manner, thereby forming an exceedingly strong construction.

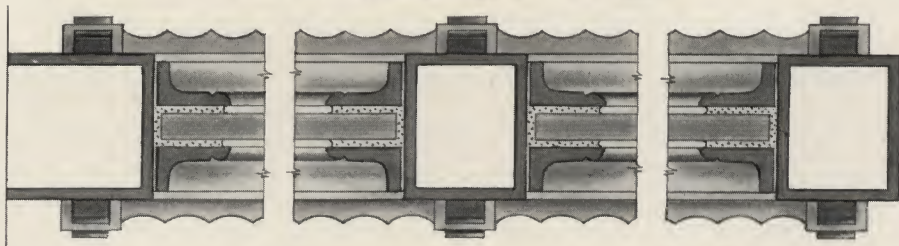


STEEL PARTITION

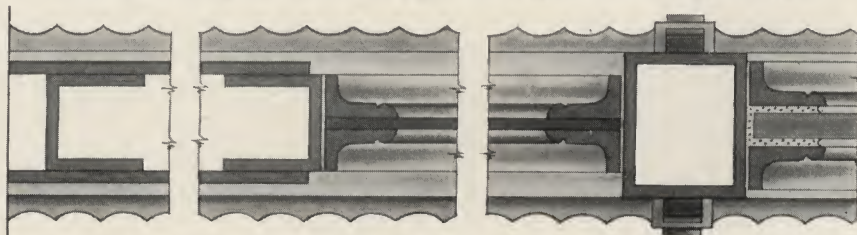
Front view of intersection



Plan Section from wall to door jamb



Cross Section from floor through sheet metal base to glass frame



Details shown are ONE-HALF actual size.

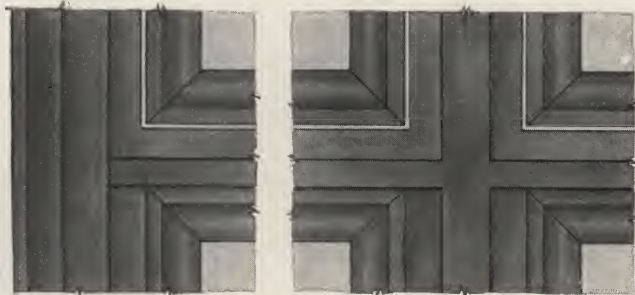
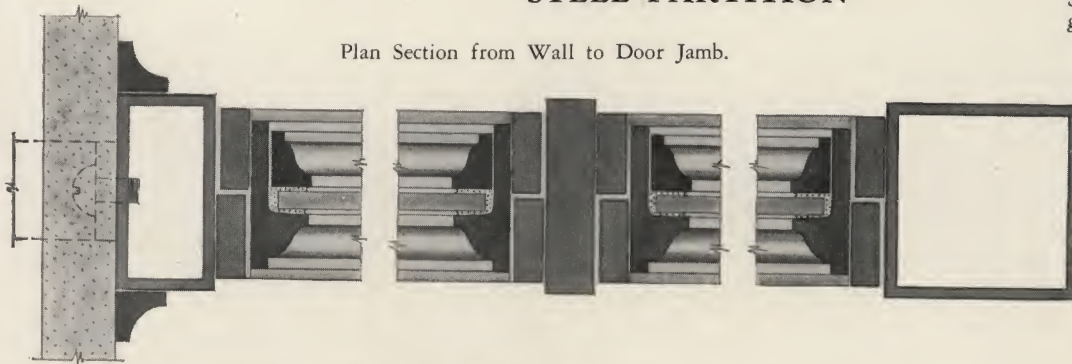


STEEL PARTITION

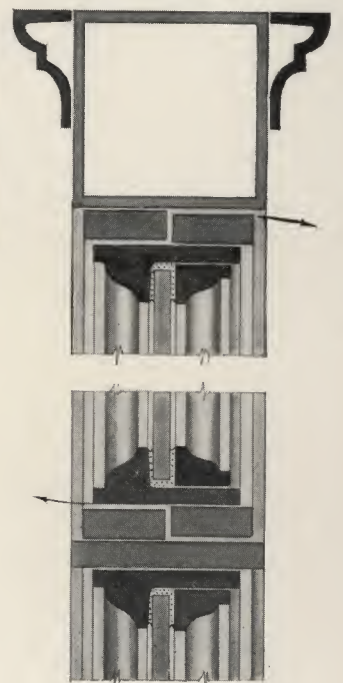
Showing pivoted and stationary glass frame.

Plan Section from Wall to Door Jamb.

TOP

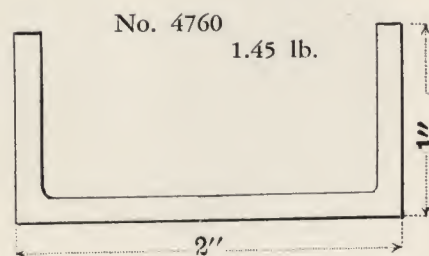
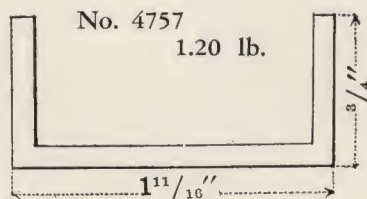
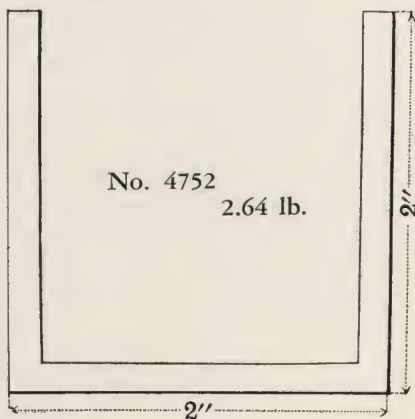
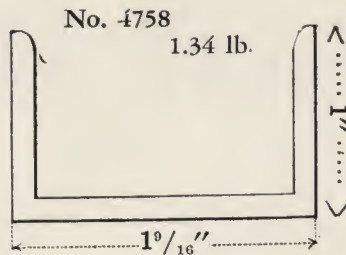
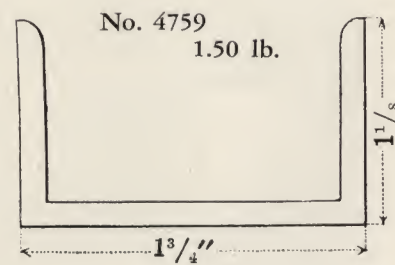
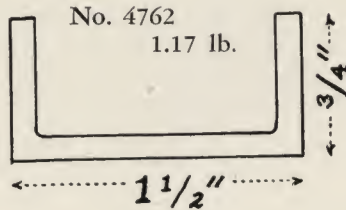
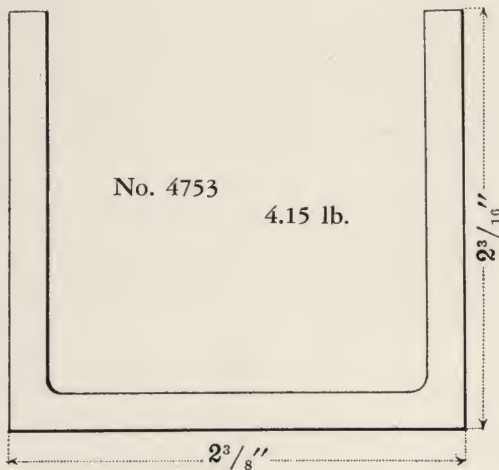
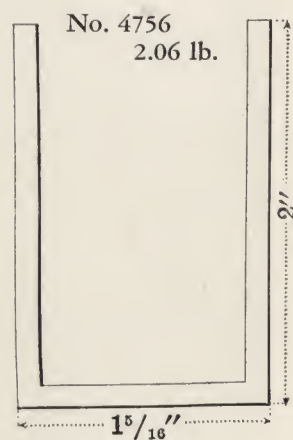
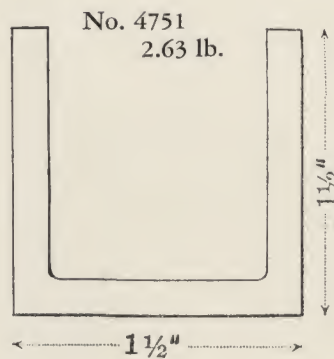
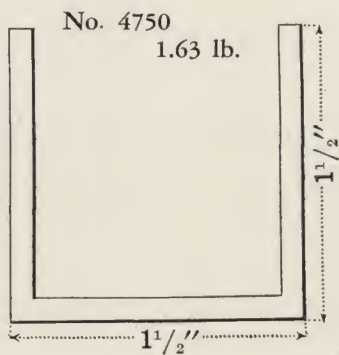
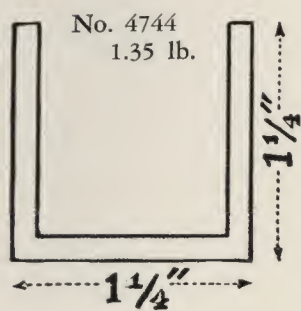
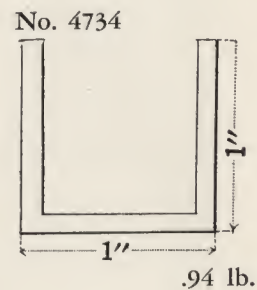
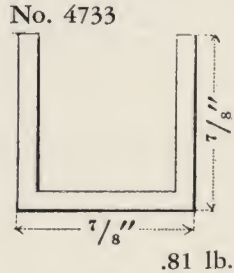
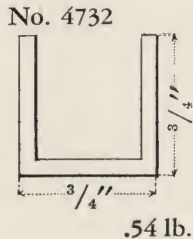
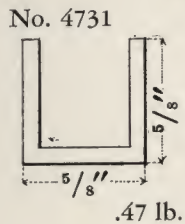
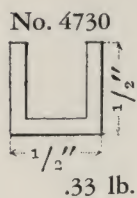


Front view showing intersection and mitres.



Details shown are ONE-HALF actual size.

Hot Rolled Steel Channels



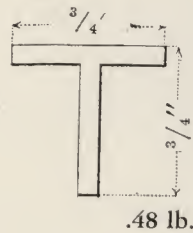
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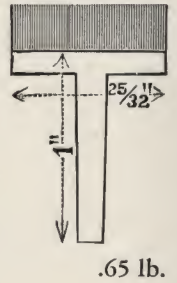
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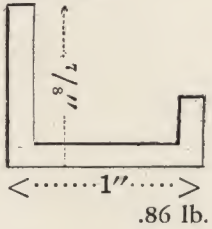
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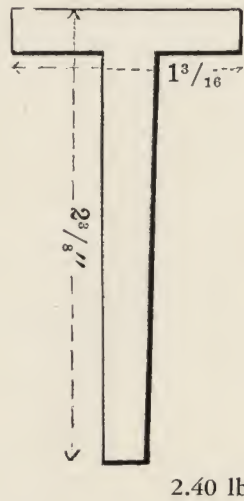
No. 4619



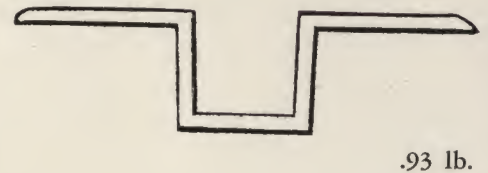
No. 4650



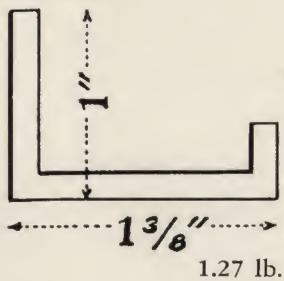
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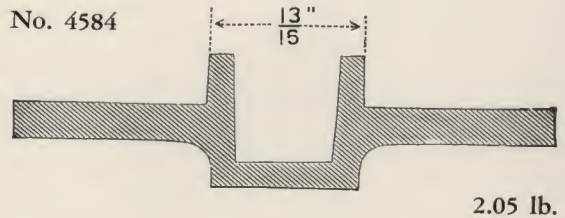
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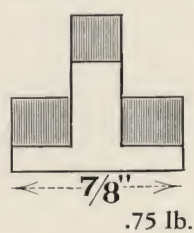
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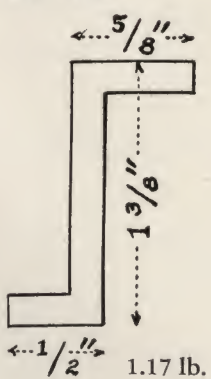
No. 4584



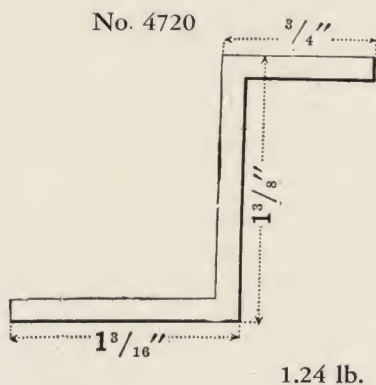
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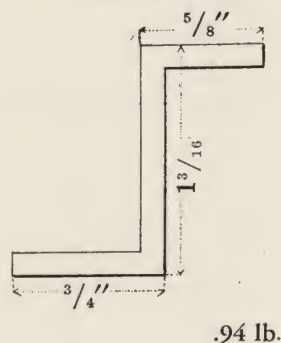
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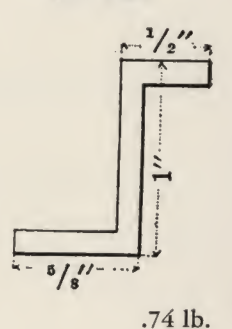
No. 4720



No. 4721



No. 4722



SQUARE ROOT HOT ROLLED STEEL ANGLES

No. 4700



No. 4701



No. 4702



SQUARE ROOT HOT ROLLED STEEL ANGLES UNEQUAL LEG

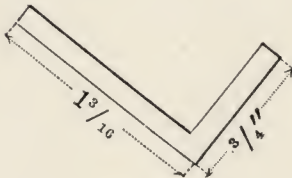
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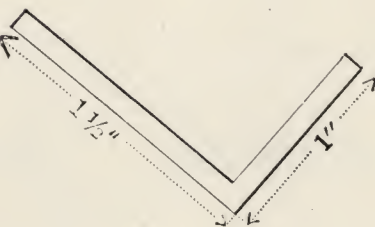
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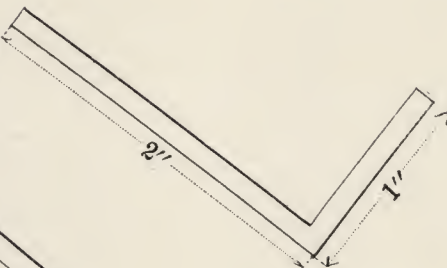
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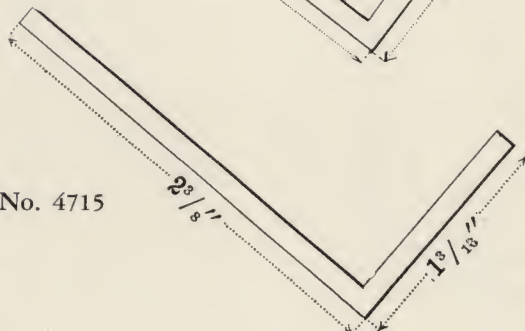
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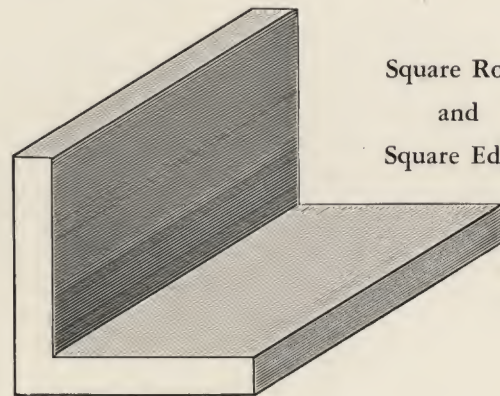
No. 4714



No. 4715



COLD DRAWN STEEL ANGLES



Square Root
and
Square Edge

1/2"	x	1/2"	x	1/8"
5/8"	x	5/8"	x	1/8"
3/4"	x	3/4"	x	1/8"
1"	x	1"	x	1/8"
1 1/4"	x	1 1/4"	x	1/8"
1 1/4"	x	1 1/4"	x	3/16"
1 1/2"	x	1 1/2"	x	1/8"
1 1/2"	x	1 1/2"	x	3/16"
2"	x	2"	x	1/8"
2"	x	2"	x	3/16"
2 1/2"	x	2 1/2"	x	3/16"
3"	x	3"	x	3/16"

COLD DRAWN STEEL CHANNEL

5/8" x 5/16" x 1/8"
(for Folding Gates)

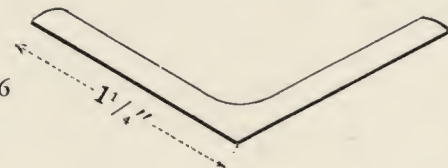
120° HOT ROLLED STEEL ANGLES

No. 4639



.72 lb.

No. 4646



1.11 lb.

No. 4647



1.58 lb.

No. 4648



2.50 lb.

Thresholds and Elevator Saddles

ARCHITECTURAL BRONZE and HOT ROLLED STEEL SECTIONS shown may be used for the construction of Elevator Saddles and Thresholds * of ALL TYPES without difficulty and at low cost:

Any Length—Any Width or Depth—Single Groove—Double Groove—Without Groove. For Different Thickness Doors; Center Opening—Side Opening—Between Jamb, Behind Jamb—Single, Double, Triple or Hinged Doors, With and Without Cut-outs for Door Bucks, Partitions, Mullions or Floor Hinges (Rixson Hinges); With and Without Panels.

Our ARCHITECTURAL BRONZE and HOT ROLLED STEEL SECTIONS are true in line, straight, free from imperfections, strong and durable, neat in appearance, require no upkeep and are non-slipping. The grooves or slots being even and smooth require NO MACHINING. Dirt does not collect and they are easily kept clean. As a result, Elevator Doors will hang right, will not rattle and will operate easily and noiselessly.

ARCHITECTURAL BRONZE SHAPES are perfectly smooth and are thoroughly straightened. If high polish is desired, slight buffing will produce a perfect, high polished surface.

ARCHITECTURAL BRONZE and HOT ROLLED STEEL SHAPES are carried in stock in long bars. Can also be furnished cut to specified lengths.

It is impossible to show in this catalogue the great variety of Elevator Saddles and Door Sills which may be assembled by the use of our shapes. We have attempted to present some typical examples which will illustrate that these shapes can be used advantageously for the construction of almost any kind of Elevator Saddle or Threshold.

We shall be pleased to submit sketches or offer suggestions as to how to build up elevator saddles or thresholds of special character.

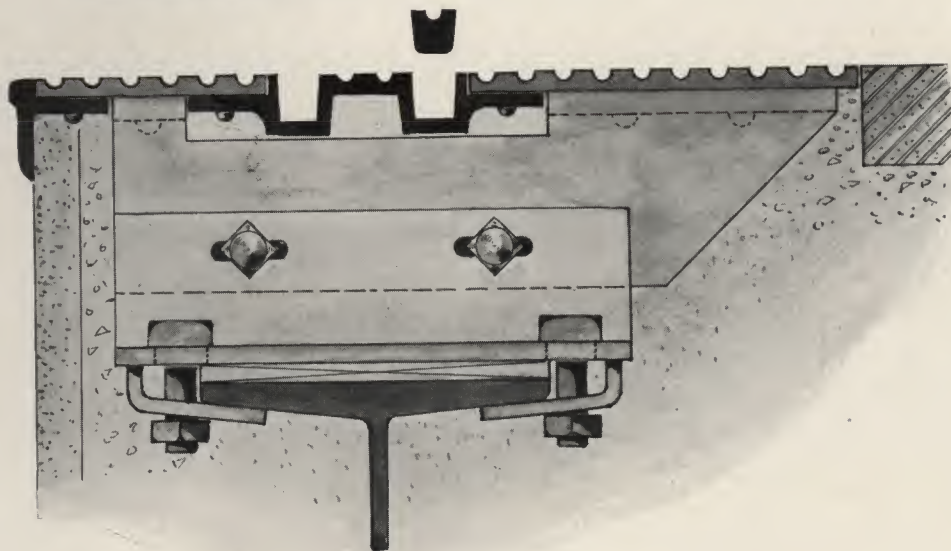
NO PATTERNS
NO BREAKAGE

NO WAITING
NO IMPERFECTIONS
NO MACHINING OF GROOVES NECESSARY
LOW IN COST

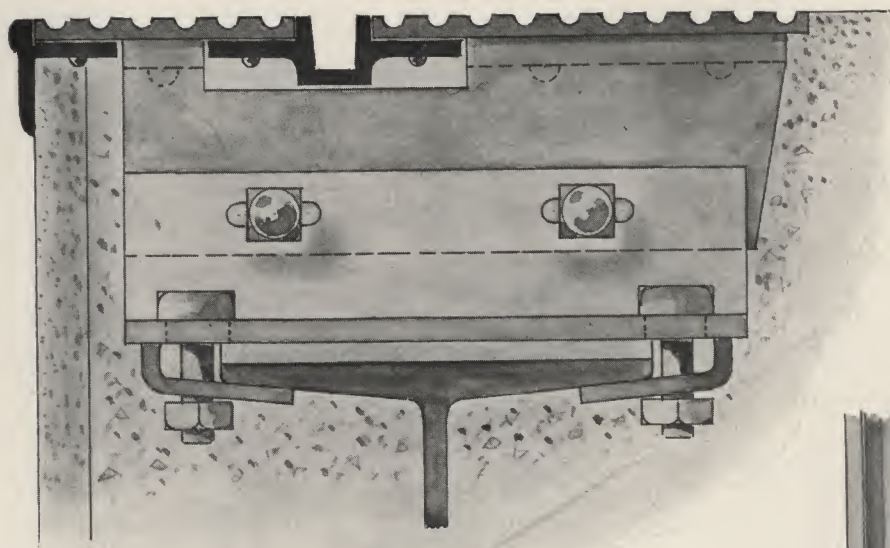
NO STRAIGHTENING
NO ERRORS

* Patent applied for

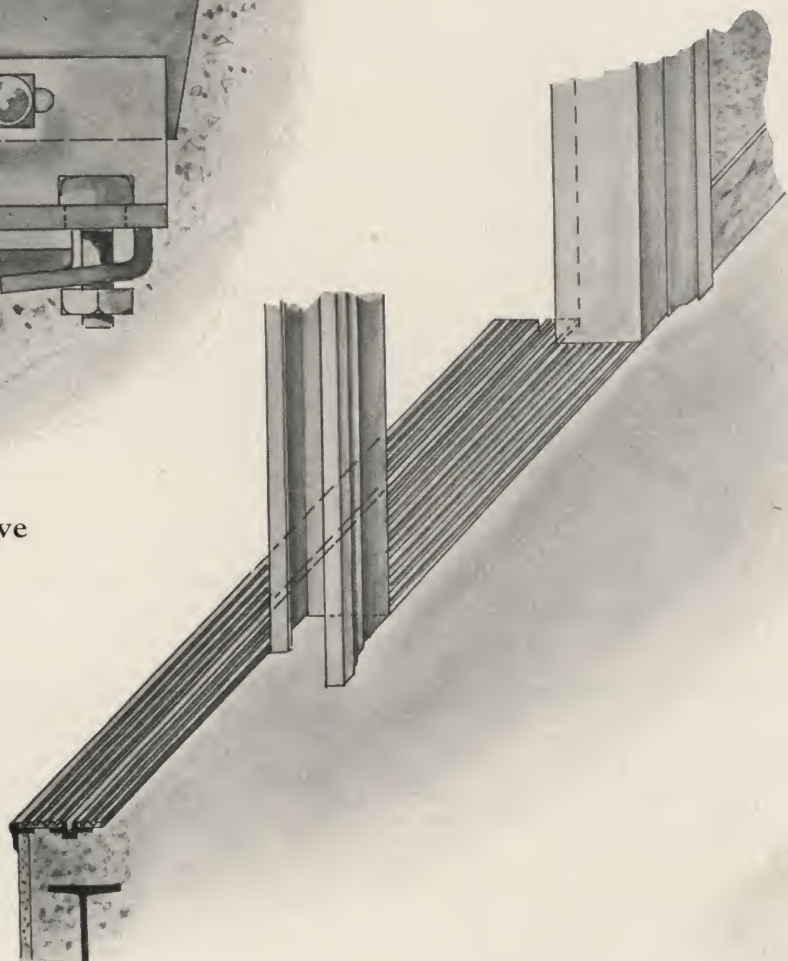
Showing Construction Double Groove Elevator Saddle



For erecting Elevator Saddles we recommend two angles, each with slotted holes, fastened in the shape of a Z to the bottom of the saddle. The legs of the bottom angles are fastened to the floor beam or channel, the saddle is then leveled between the jamb, the bolts and nuts connecting the two Z-shaped angles are tightened and the concrete flushed underneath.



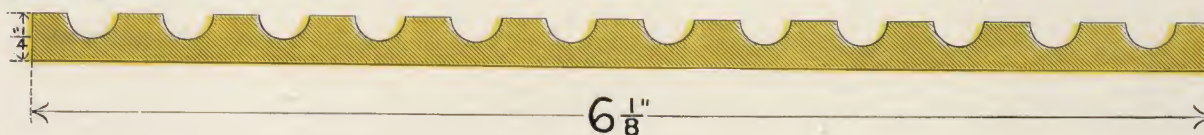
Showing Construction Single Groove Elevator Saddle



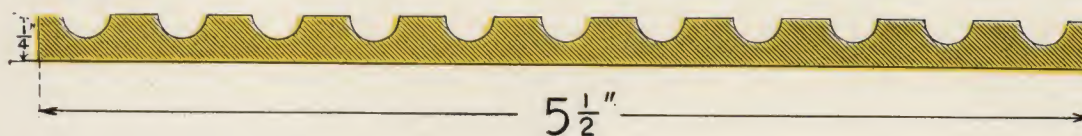
Architectural Bronze Shapes for the Construction of Elevator Saddles and Door Sills

FLUTED FLAT SECTIONS

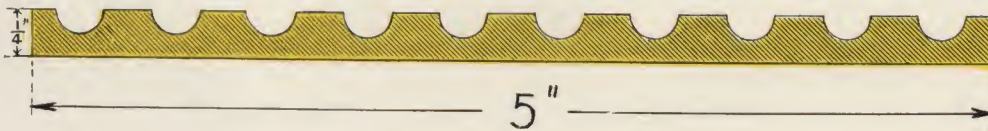
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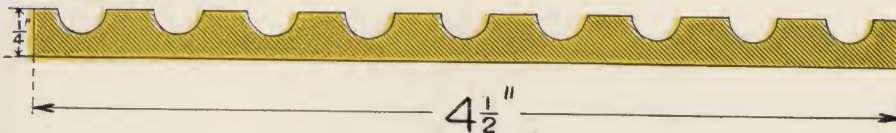
No. 4550



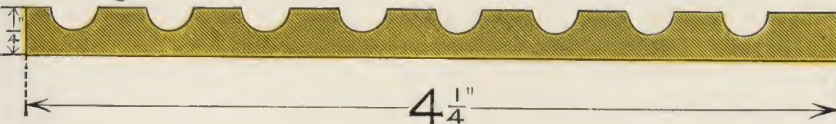
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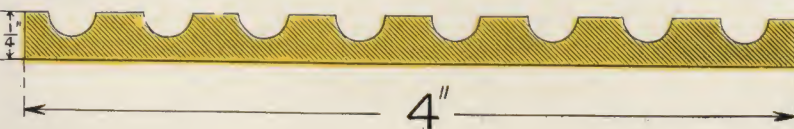
No. 4552



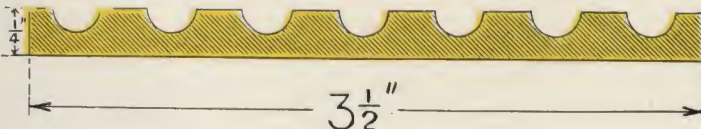
No. 4553Q



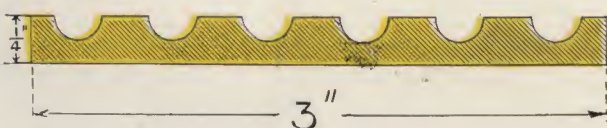
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No. 4554

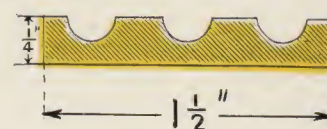


No. 4555

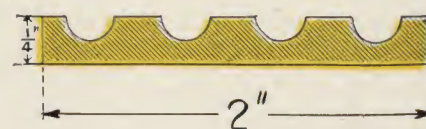


When saddles of extreme width are to be constructed, two or more fluted flat sections, with or without nosing, may be used side by side, or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.

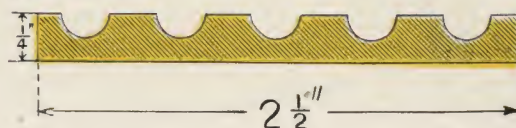
No. 4558



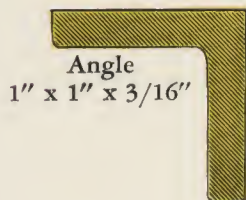
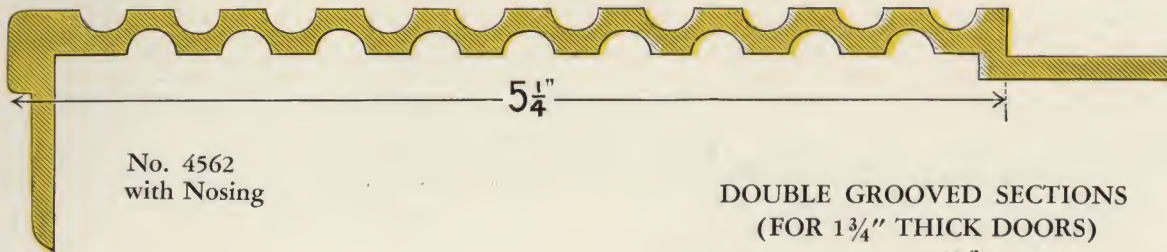
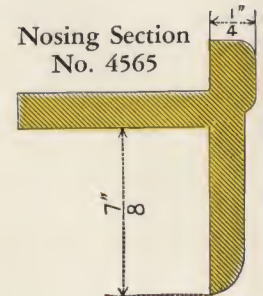
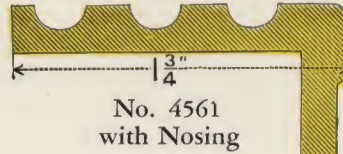
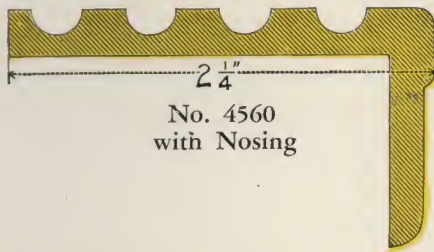
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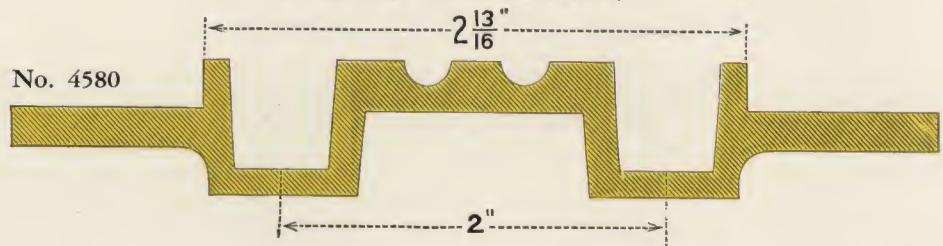
No. 4556



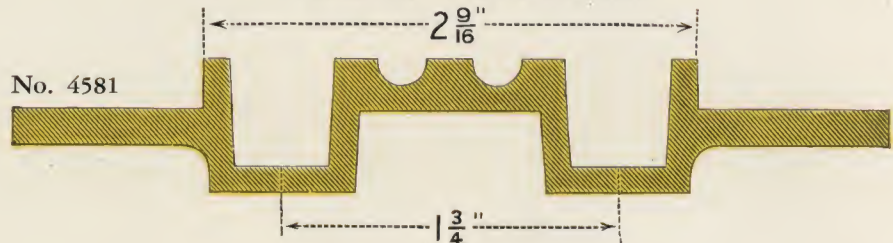
Architectural Bronze Shapes for the Construction of Elevator Saddles and Door Sills



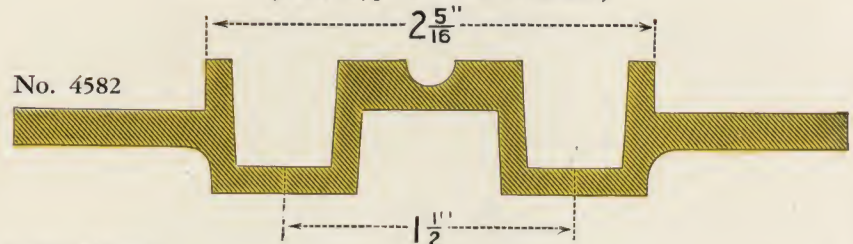
DOUBLE GROOVED SECTIONS (FOR 1 3/4" THICK DOORS)



(FOR 1 1/2" THICK DOORS)



(FOR 1 1/4" THICK DOORS)



INSERT SECTION

No. 4588



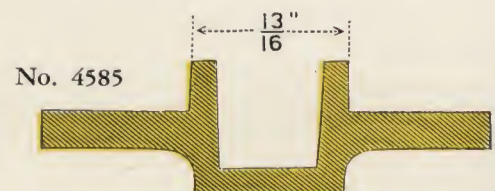
For filling up part of groove and for door stop.

PLAIN FLAT SECTIONS FOR PANELS

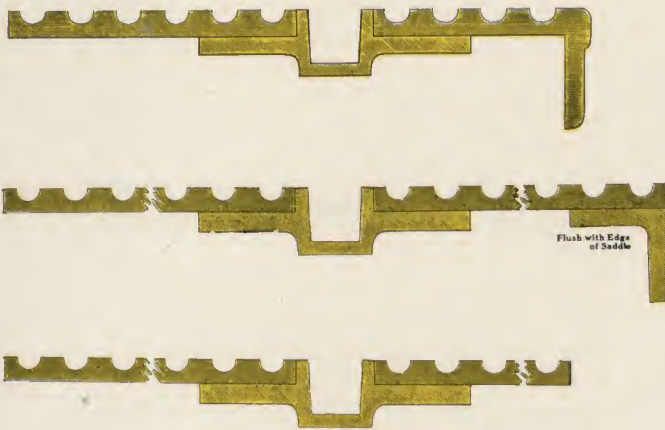
5/8" x 1/4"
3/4" x 1/4"
1" x 1/4"
2" x 1/4"
3" x 1/4"

For other sizes
see Page 46

SINGLE GROOVED SECTION



Method of Constructing Single Groove Architectural Bronze Elevator Saddles

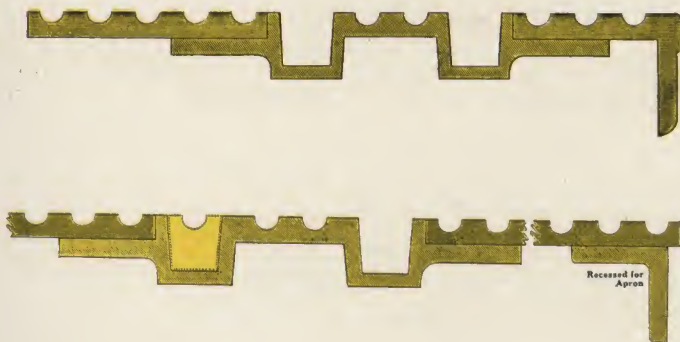


SINGLE GROOVE ELEVATOR SADDLES are generally used for elevator doors opening to the right or left, or center opening. The groove in which the door slides usually extends behind the partition. The finished elevator saddle is in the shape of an L or a T.

The location of the grooves is determined by the thickness of the door, the type hanger and door closing device used and whether or not the partition wall is recessed to provide space for the sliding door.

Single groove elevator saddles are constructed by using one or more Flat Fluted Sections No. 4550 to No. 4559 of suitable width, together with Single Groove Section No. 4585. The dimensions of the over-all depth are governed by the thickness of the door jamb.

Method of Constructing Double Groove Architectural Bronze Elevator Saddles



DOUBLE GROOVE ELEVATOR SADDLES (or for triple doors), opening right or left may be constructed by using Double Groove Sections Nos. 4580, 4581 or 4582 in conjunction with fluted flats of suitable widths. As a rule, double groove elevator saddles do not extend behind the partition.

The thickness of the doors governs the type of double groove section to be used. A space of $\frac{1}{4}$ " is generally allowed between doors.

As a rule, the saddle should be flush on the hall side with the jamb or finish within that line. If saddle projects beyond this line it is cut out to follow the lines of the jamb.

The dimension from the shaft line to the center of the groove depends upon conditions in the elevator shaft. Usually, from $\frac{3}{4}$ " to $1\frac{1}{4}$ " clearance is allowed between the end of the saddle and the edge of the elevator cab.

When saddles of extreme width are to be constructed, two or more fluted flat sections, with or without nosing, may be used side by side or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.

If a sheet metal apron is used within the shaft Section No. 4560, 4561 or 4562 is used, or nosing No. 4565, or an angle. If an angle is used, same may be fastened flush with the edge of the saddle or the angle is recessed sufficiently to receive the apron.

The sheet metal apron may be straight or bent at an angle according to conditions in the elevator shaft and may be fastened to the nosing or angle in front or in back. If fastened to the front, the nosing is sufficiently heavy to receive tap screws. If fastened to the back, the head of the screw or bolt is countersunk into the leg of the nosing or angle.

If no sheet metal apron is used, the angle or nosing acts as a plaster stop.

Construction of Elevator Saddles Without Grooves

ARCHITECTURAL BRONZE



ROLLED STEEL

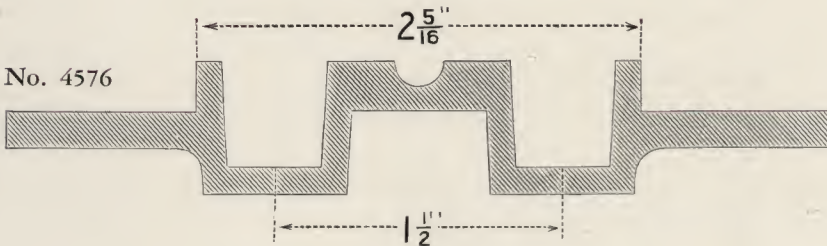


The method of constructing elevator saddles without grooves, with or without nosing, is practically the same as the construction of single groove elevator saddles.

Hot Rolled Steel Sections for the Construction of Elevator Saddles

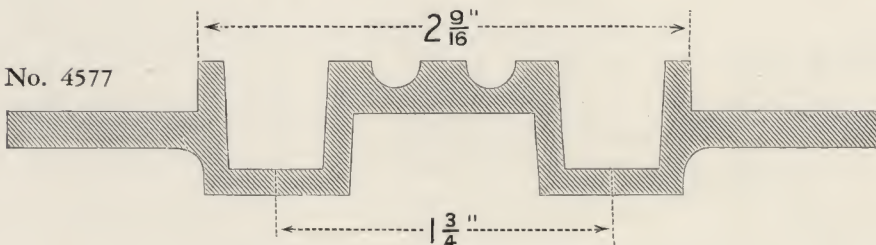
DOUBLE GROOVED SECTION
(FOR 1 1/4" THICK DOORS)

No. 4576



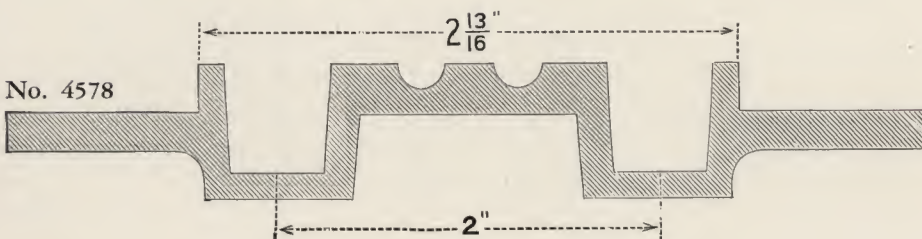
(FOR 1 1/2" THICK DOORS)

No. 4577



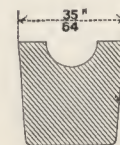
(FOR 1 3/4" THICK DOORS)

No. 4578



INSERT SECTION

No. 4587

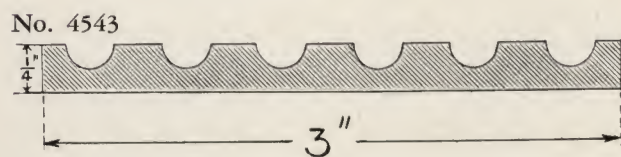
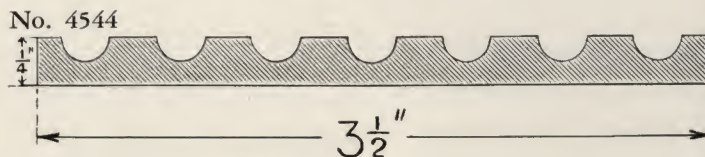
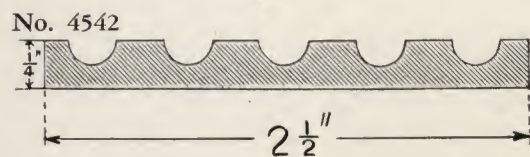
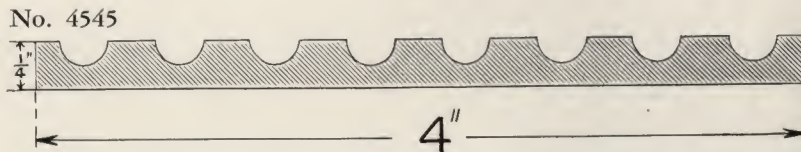
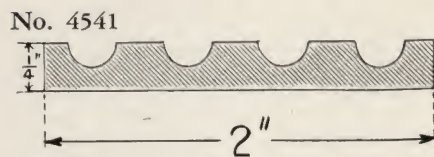
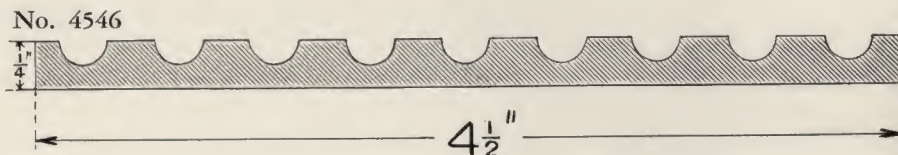
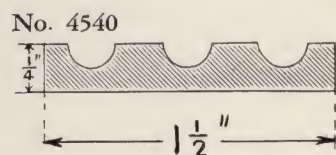


For filling up part of groove and for door stop.

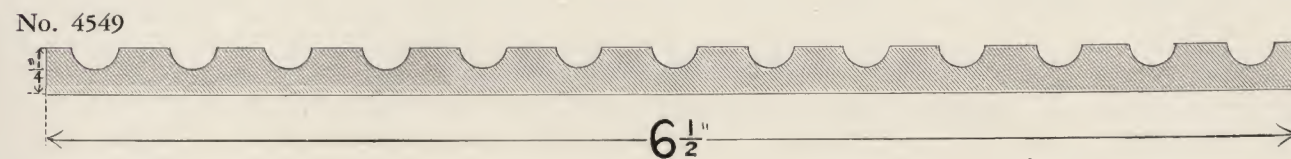
The thickness of the doors governs the type of double groove section to be used. As a rule, 1/4" clearance is allowed between doors.

If doors are slightly thicker or thinner, the pins on the bottom of door are set a trifle off center.

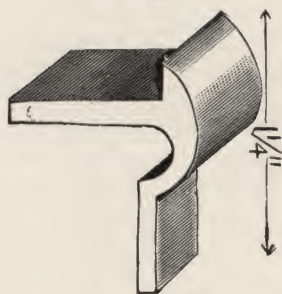
Hot Rolled Steel Sections for the Construction of Elevator Saddles and Door Sills



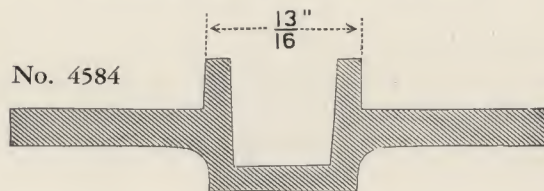
When saddles of extreme width are to be constructed, two or more fluted flat sections may be used side by side or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.



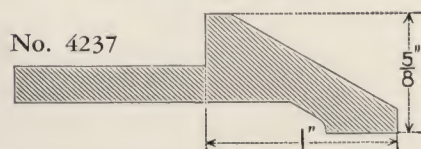
Nosing for Steel Saddles
No. 4235



SINGLE GROOVED SECTIONS



BEVEL END PIECE



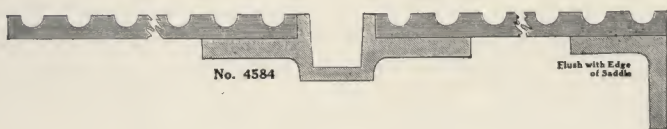
Method of Constructing Single Groove Rolled Steel Elevator Saddles



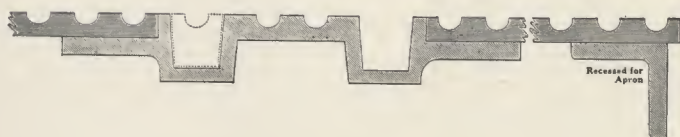
SINGLE GROOVE ELEVATOR SADDLES are generally used for elevator doors opening to the right or left or center opening. The groove in which the door slides usually extends behind the partition. The finished elevator saddle is in the shape of an L or a T.

The portion of the saddle between the jamb is constructed by using one or more flat fluted sections No. 4540 to No. 4549 of suitable width, together with single groove section No. 4584 or No. 4505. The dimensions of the over all depth are governed by the thickness of the door jamb.

Either Single Groove Section No. 4584 or No. 4505 may be used for building up single groove elevator saddles. Either Section No. 4235 or an angle is used for Nosing. As a rule, the clearance allowed between the edge of the elevator saddle and the elevator cab permits the shifting of the saddle to the extent of $\frac{1}{8}$ " or $\frac{1}{4}$ " but if measurements have to be strictly adhered to, it is possible to meet practically all conditions by using Section No. 4584 or No. 4505 and on the shaft side Nosing No. 4235 or an angle. (See Table on Page No. 77.)



Method of Constructing Double Groove Rolled Steel Elevator Saddles



The thickness of the doors governs the type of double groove section to be used. Usually $\frac{1}{4}$ " clearance is allowed between doors.

DOUBLE GROOVE ELEVATOR SADDLES (or for triple doors), opening right or left, may be constructed by using Double Groove Sections No. 4576, 4577 or 4578 in conjunction with fluted flats of suitable width. Double groove elevator saddles usually do not extend behind the partition.

The method of construction is similar to the one used for single groove elevator saddles.

Method of Constructing Rolled Steel Elevator Saddles

As a rule, the saddle should be flush on the hall side with the jamb line or finish within that line. If saddle projects beyond this line, it is cut out to follow the lines of the jamb.

The location of the groove is determined by the thickness of the door, the type hanger and door closing device used and whether or not the partition wall is recessed to provide space for the sliding door.

The dimension from the shaft line to the center of the groove depends upon conditions in the elevator shaft. As a rule, from $\frac{3}{4}$ " to $1\frac{1}{4}$ " clearance is allowed between the end of the saddle and the edge of the elevator cab.

When saddles of extreme width are to be constructed, two or more fluted flat sections may be used side by side, or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.

If a sheet metal apron is used within the shaft, either Section No. 4235 is used or an angle. If an angle is used, same may be fastened flush with the edge of the saddle, or the angle is recessed sufficiently to receive the apron.

The sheet metal apron may be straight or bent at an angle according to conditions in the elevator shaft and may be fastened to the nosing or angle in front or in back. If fastened to the front, the nosing is sufficiently heavy to receive tap screws. If fastened to the back, the head of the screw or bolt is countersunk into the leg of the nosing or angle.

If no sheet metal apron is used, the nosing or angle acts as a plaster stop.

The table below gives a list of the sections to be used for constructing ROLLED STEEL ELEVATOR SADDLES ranging from $2\frac{3}{8}$ " to $3\frac{5}{8}$ " from the shaft line to center of first groove of elevator saddle.

Where no nosing section is listed, a plain angle is used as a nosing, either finished flush with the flat fluted section or recessed to receive the apron.

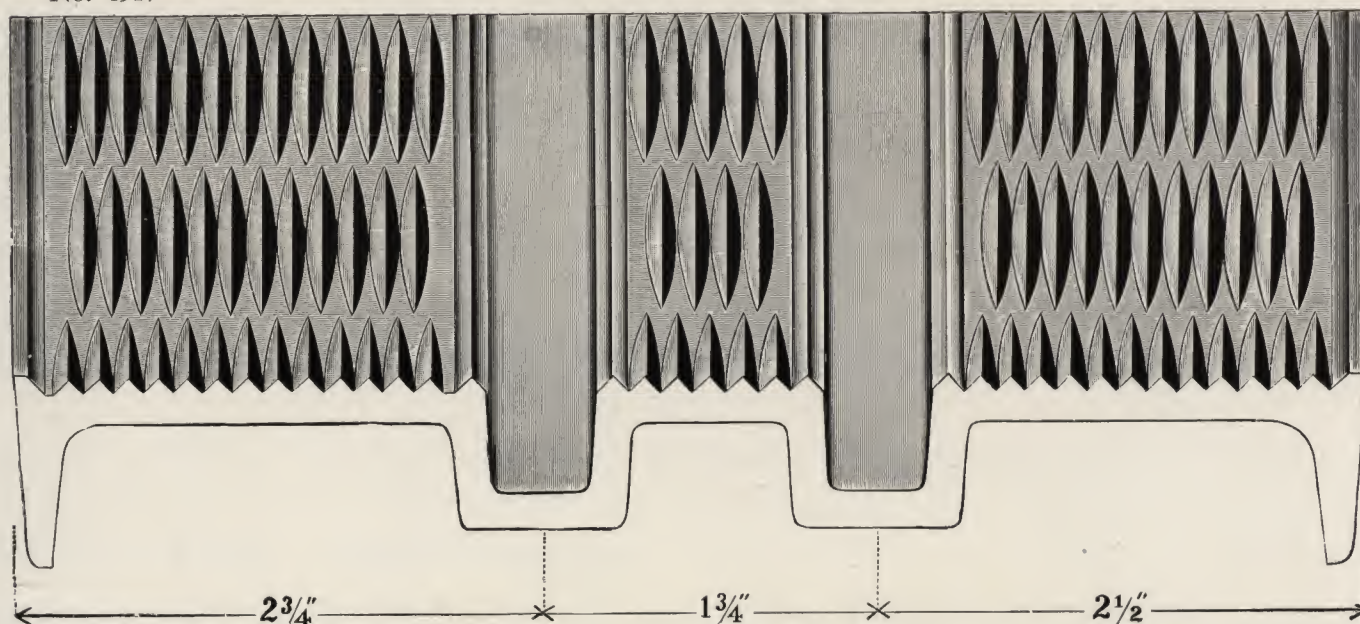
	<i>Nosing Section</i>	<i>Flat Fluted Section</i>	<i>Groove Section</i>
$2\frac{3}{8}$"	.....	No. 4541	No. 4584
$2\frac{1}{2}$ "	No. 4235	No. 4541	No. 4505
$2\frac{5}{8}$ "	No. 4235	No. 4541	No. 4584
$2\frac{3}{4}$"	.....	No. 4542	No. 4505
$2\frac{7}{8}$"	.....	No. 4542	No. 4584
$3\frac{1}{8}$ "	No. 4235	No. 4542	No. 4584
$3\frac{1}{4}$"	.....	No. 4543	No. 4505
$3\frac{3}{8}$"	.....	No. 4543	No. 4584
$3\frac{1}{2}$ "	No. 4235	No. 4543	No. 4505
$3\frac{5}{8}$ "	No. 4235	No. 4543	No. 4584

For double doors, the location of the second groove is automatically determined by using Sections Nos. 4576, 4577 or 4578 in place of Single Groove Section No. 4584.

Hot Rolled Steel Elevator Saddle

ROLLED IN ONE PIECE

No. 4517



ROLLED STEEL ELEVATOR SADDLE No. 4517 (with two grooves) may be used for single or double type sliding doors of various thicknesses, opening from center or sideways, operating on single or two speed hangers.

If necessary to close up part or all of one of the slots, filler section No. 4518, which fits snugly into either groove, may be used for this purpose.

ROLLED STEEL ELEVATOR SADDLE No. 4517 is reversible. Sufficient room is allowed on the $2\frac{3}{4}$ " side for installation of door closing device.

Position or thickness of sliding doors may vary. Practically all conditions can be met by placing the pins at bottom of doors slightly off center.

The nosing on the side of the elevator shaft is slightly tilted in and beveled. This member acts as a lock for the plaster finish or it will receive the sheet steel facia or apron. Sufficient room is allowed for bolting the sheet to the *inside* of the nosing, thereby assuring a clean and neat finish.

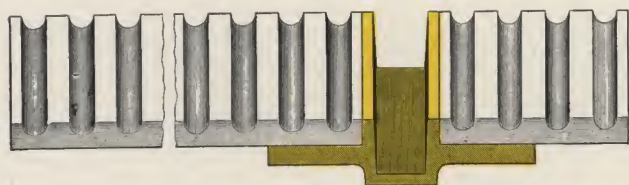
Our ROLLED STEEL ELEVATOR SADDLE No. 4517 is rolled true and smooth of best soft steel. It is strong and durable, cannot break, non-slipping, neat in appearance and requires no upkeep. The grooves or slots being rolled smooth and even, dirt does not collect and they may be kept clean easily. As a result doors will hang right, will not rattle and will operate easily and noiselessly.

ROLLED STEEL ELEVATOR SADDLES are carried in stock in long bars; can also be furnished cut to specified length.

No. 4518



Filler Section No. 4518
fits snugly into either
groove of Saddle
No. 4517

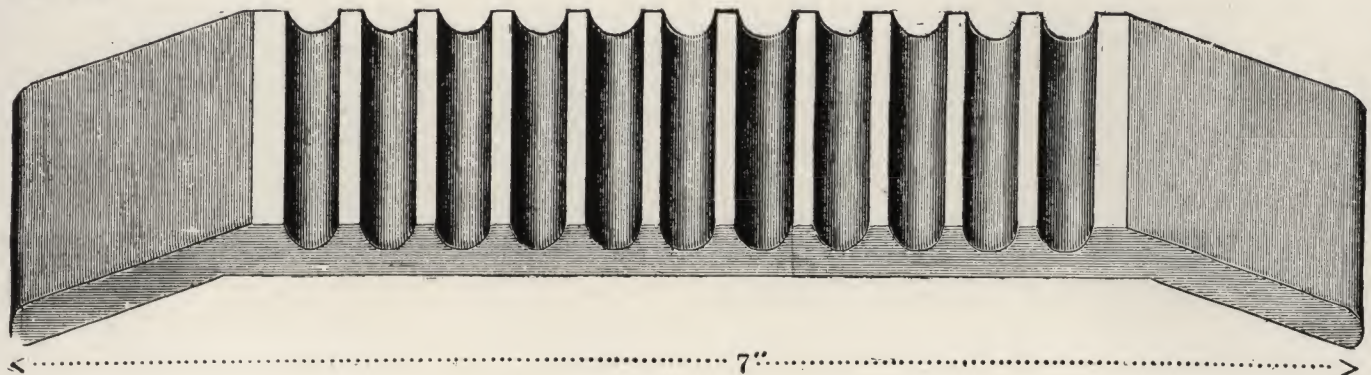


Showing a single groove elevator saddle constructed by means of hot rolled steel flat fluted sections of suitable width in conjunction with Architectural Bronze single groove section No. 4585. Double groove sections No. 4580, 4581, 4582 may be used in the same manner.

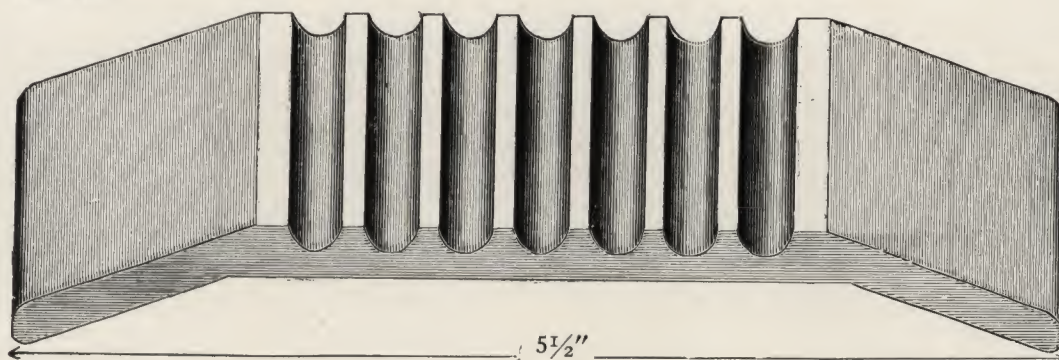
Saddles constructed in this manner are good in appearance and the perfect, smooth and true Architectural Bronze groove insures noiseless operation of elevator doors.

Rolled Steel Door Saddles

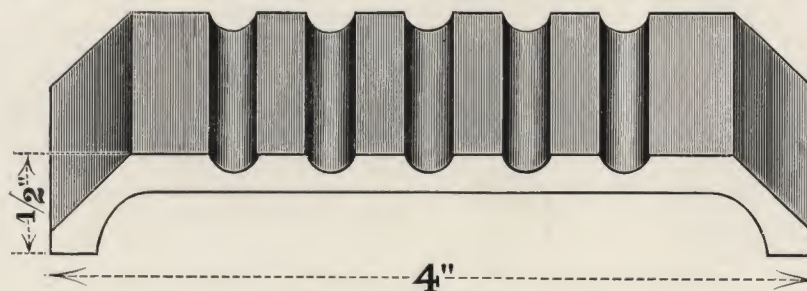
No. 4500



No. 4501



No. 4503



For other details of Rolled Steel Door Saddles see Pages Nos. 80, 84, 85

Rolled Steel Door Saddles are stronger and cleaner in appearance and cheaper than Cast Iron Saddles. Carried in Stock in long Bars. Can also be furnished cut to specified length.

NO PATTERNS

NO BREAKAGE

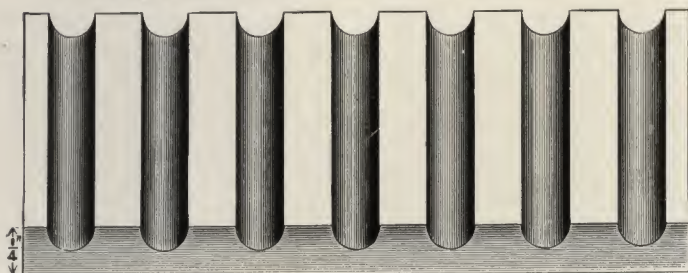
NO WAITING

NO IMPERFECTIONS

NO STRAIGHTENING

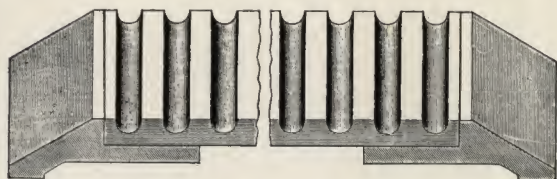
Rolled Steel Door Saddles

FLUTED FLAT HOT ROLLED STEEL SECTIONS



No. 4540—1 1/2" wide
 4541—2" "
 4542—2 1/2" "
 4543—3" "

No. 4544—3 1/2" wide
 4545—4" "
 4546—4 1/2" "
 4549—6 1/2" "



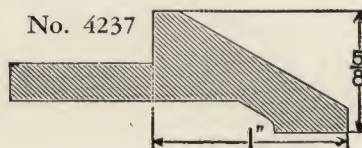
Showing method by which ROLLED STEEL DOOR SADDLES of any depth or width or length, with or without panels, may be constructed by using Bevel End Piece No. 4237 together with Flat Fluted Sections.



ROOF DOOR SADDLE



BEVEL END PIECE
HOT ROLLED STEEL



Example:

To construct a saddle beveled both sides, 5/8" high, use the following material:

3 1/2" wide:	1 Pc.	No. 4540	and	2 Pcs.	No. 4237
4"	1 "	No. 4541	"	2 "	No. 4237
4 1/2"	1 "	No. 4542	"	2 "	No. 4237
5"	1 "	No. 4543	"	2 "	No. 4237
5 1/2"	1 "	No. 4544	"	2 "	No. 4237
6"	1 "	No. 4545	"	2 "	No. 4237
6 1/2"	1 "	No. 4546	"	2 "	No. 4237
8 1/2"	1 "	No. 4549	"	2 "	No. 4237

When door saddles of extreme depths or lengths are to be constructed, two or more fluted flat sections may be used side by side or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.

DOOR SADDLE WITH GROOVE FOR
SLIDING DOORS



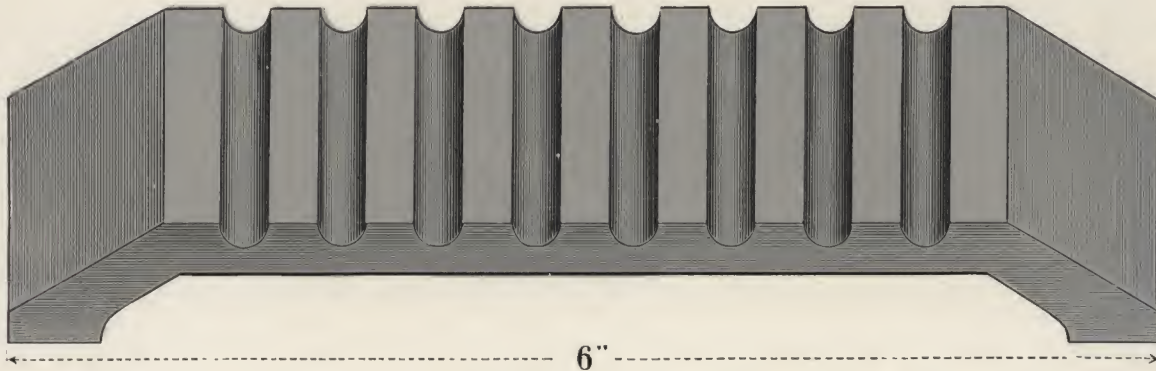
Saddles with double grooves (for double doors or screen doors) may be constructed in similar manner by using Double Groove Sections Nos. 4576, 4577 or 4578.

A great variety of saddles of special character may be constructed by the use of our Rolled Steel Sections.

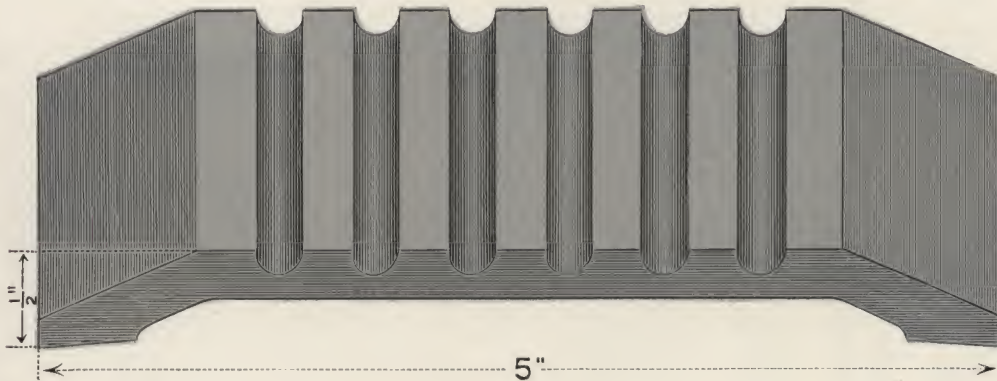
Door Saddles without corrugations or flutings, or partly fluted or partly plain may be constructed in the same manner by using flat fluted sections turned around with the smooth side on top.

Aluminum Door Sills

No. 6920 6" wide x $\frac{5}{8}$ " high

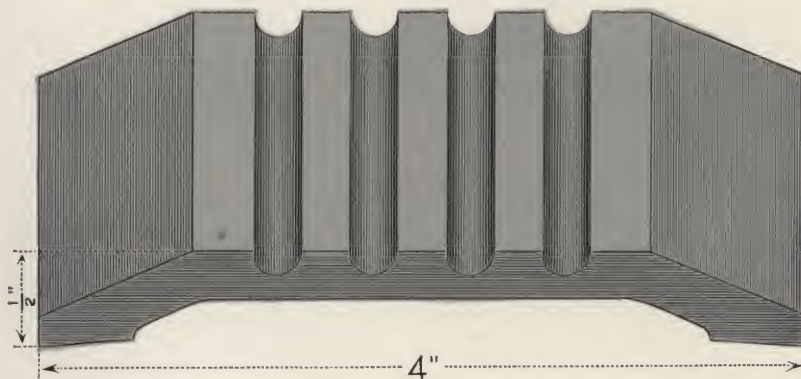


No. 6922 5" wide x $\frac{1}{2}$ " high



We carry in stock $\frac{1}{4}$ " half round aluminum moulding with which any part of the fluting may be closed up.

No. 6923 4" wide x $\frac{1}{2}$ " high

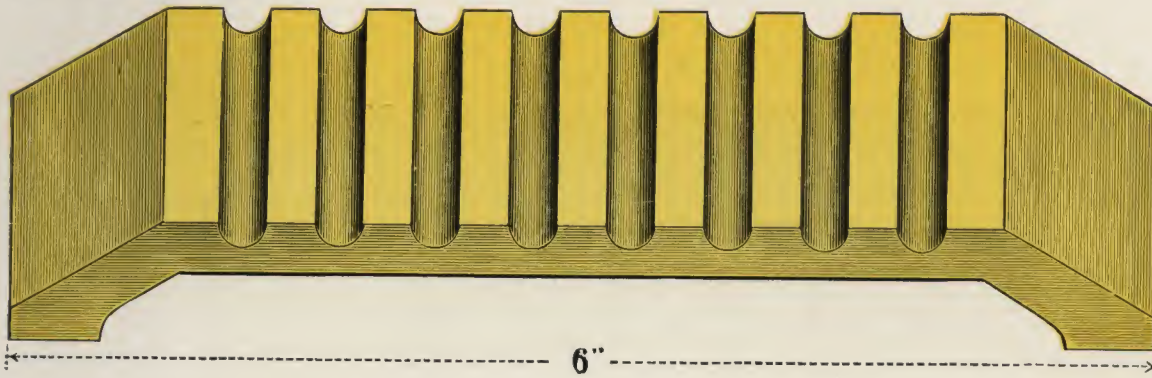


We carry in stock
ALUMINUM WOOD SCREWS
flat head, countersunk
No. 16—2" long
No. 16— $1\frac{1}{2}$ " "

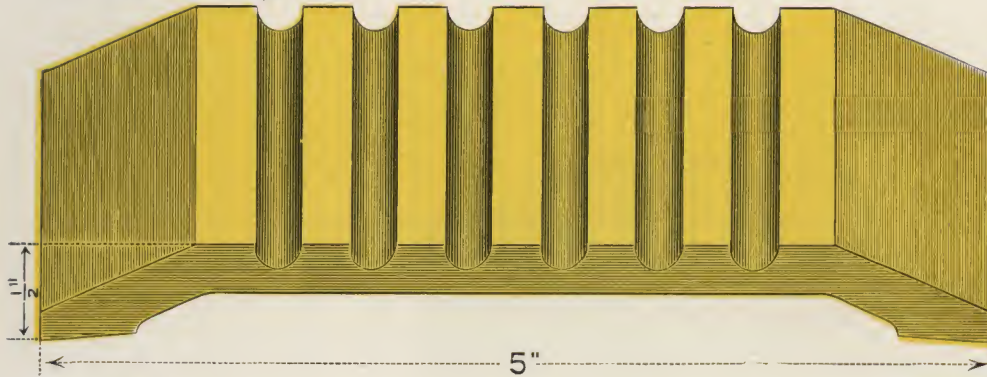
ALUMINUM DOOR SILLS are made from a tough, heat treated, wear resisting Aluminum alloy. They are carried in stock in long, straight bars. Can also be furnished cut to specified length. Surface is free from imperfections. Buffing only is required to produce a highly polished finish.

Architectural Bronze Door Sills

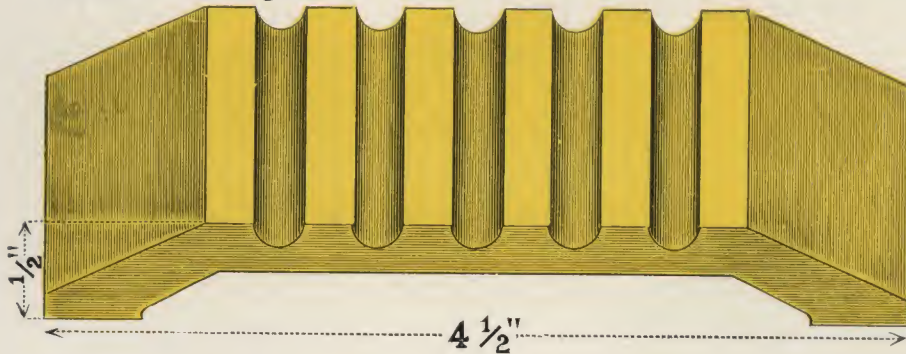
No. 4520 $\frac{5}{8}$ " High



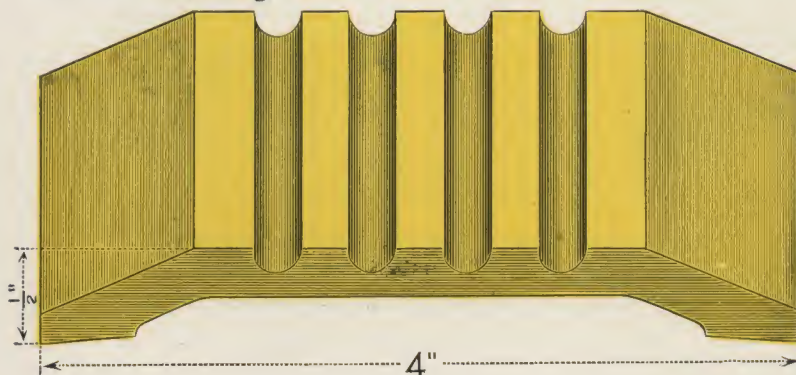
No. 4522 $\frac{1}{2}$ " High



No. 4521 $\frac{1}{2}$ " High



No. 4523 $\frac{1}{2}$ " High



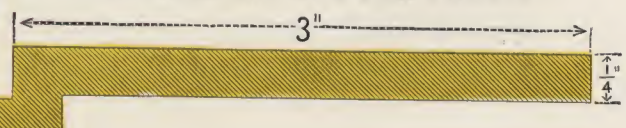
Architectural bronze saddles are carried in stock in long, straight bars. They can also be furnished cut to specified lengths.

Architectural bronze saddles are practically a finished product and only need buffing if a highly polished surface is required.

If it is desired to form a panel without fluting at the ends of a saddle, a piece of Section No. 4574 of the same length as the width of the fluted portion of the saddle is fastened at right angles to each end.

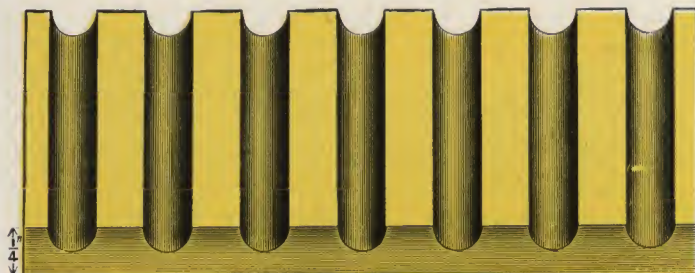
We also carry in stock $\frac{1}{4}$ " half round moulding with which any part of the fluting may be closed up.

END PIECE No. 4574 FOR PANELS



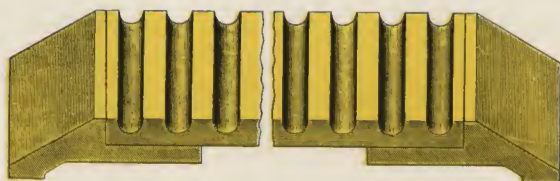
Architectural Bronze Door Saddles

FLUTED FLAT ARCHITECTURAL BRONZE SECTIONS



No. 4558—1½" wide
 4557—2" "
 4556—2½" "
 4555—3" "
 4554—3½" "
 4553—4" "

No. 4553Q—4¼" Wide
 4552—4½" "
 4551—5" "
 4550—5½" "
 4559—6⅞" "



Showing method by which Architectural Bronze Door Saddles of any depth, width or length, with or without panels, may be constructed by using Bevel End Pieces Nos. 4526, 4527, 4528 together with Flat Fluted Sections.

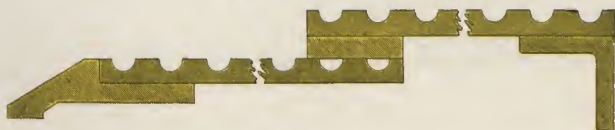


When door saddles of extreme depths or lengths are to be constructed, two or more fluted flat sections may be used side by side, or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.



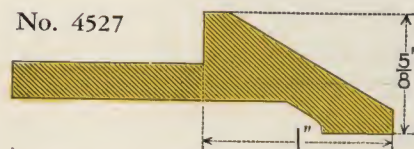
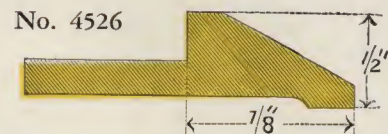
Beveled saddles without corrugations or flutings, or partly fluted and partly plain may be constructed in the same manner by using flat fluted sections turned around with the smooth side on top.

ROOF SADDLE



A great variety of saddles of special character may be constructed by the use of our Architectural Bronze Sections.

BEVEL END PIECES FOR FORMING ARCHITECTURAL BRONZE DOOR SADDLES



PLAIN FLAT SECTIONS FOR PANELS



5/8" x 1/4"
 3/4" x 1/4"
 1" x 1/4"
 2" x 1/4"
 3" x 1/4"

We carry in stock 1/4" half round Bronze Moulding for filling in part of grooves (if panel effect is required).

ARCHITECTURAL BRONZE RIVETS

9/16" x 3/16"
 11/8" x 1/4"

Rivets of same color as Architectural Bronze Sections carried in stock.

DOOR SADDLE WITH GROOVE FOR SLIDING DOORS



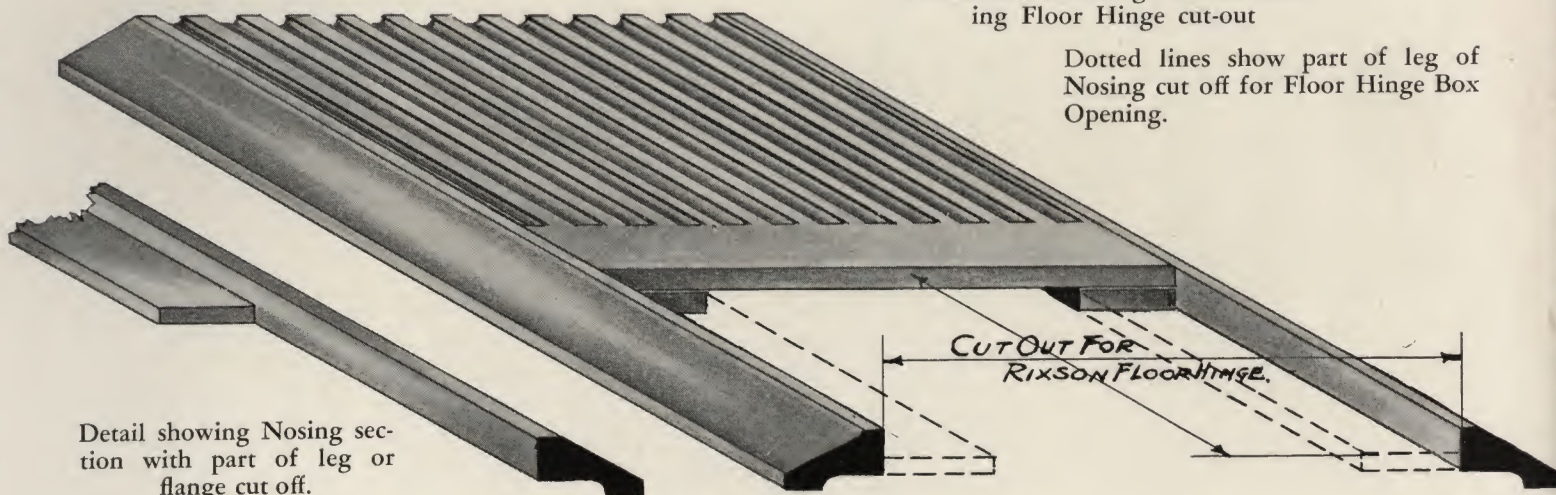
Saddles with double grooves (for double doors or screen doors) may be constructed in similar manner by using Double Groove Sections Nos. 4580, 4581 or 4582.

Typical Construction of Door Sills with cut-out for Floor Hinges

(Rixson Hinges)

Detail section through Saddle showing Floor Hinge cut-out

Dotted lines show part of leg of Nosing cut off for Floor Hinge Box Opening.



Detail showing Nosing section with part of leg or flange cut off.

Thresholds of any type, length or width with cut-outs for Floor Hinges or Mullions or Columns may be constructed easily and at low cost by means of our Architectural Bronze or Rolled Steel Sections.

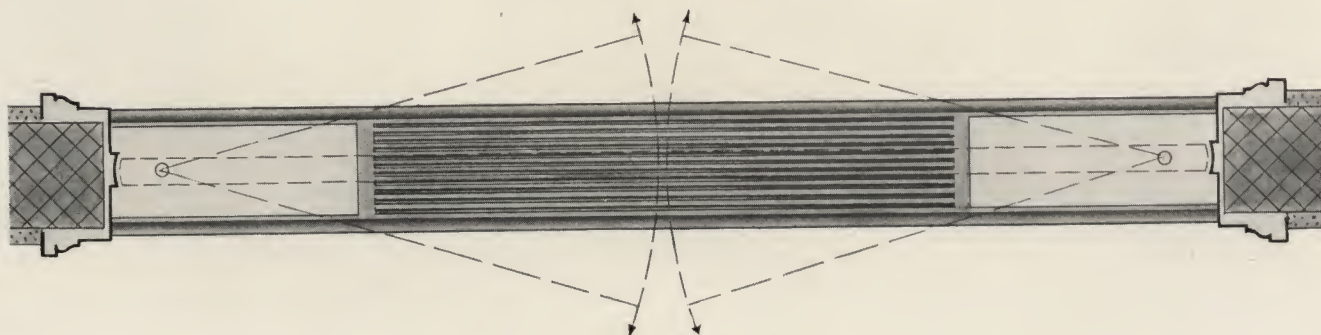
The legs or flanges of the nosings act as support for the flat fluted section. These legs are notched out or cut out (as illustrated) according to the length of the cover of the Hinge Box thereby forming an opening to receive the Floor Hinge Box.

Example: To construct an Architectural Bronze Saddle 6'0" long x $\frac{5}{8}$ " high with openings at each end for No. 25 Rixson Hinge (dimension of cover of floor Hinge Box $9\frac{7}{8}$ " x $6\frac{1}{8}$ ") use 2 pieces No. 4527 Nosing each 6'0" long. Cut away $9\frac{7}{8}$ " of the leg or flange at each end. Use 1 piece No. 4559 $52\frac{1}{4}$ " long. If panel effect 1" wide at each end is desired use only $50\frac{1}{4}$ " of No. 4559 and 2 pieces 1" x $\frac{1}{4}$ " plain flat, each $6\frac{1}{8}$ " long.

A saddle assembled in this manner will be $8\frac{1}{8}$ " wide. Wider saddles may be constructed by using two flat fluted sections with a plate underneath, cut out for Hinge Box to suit conditions.

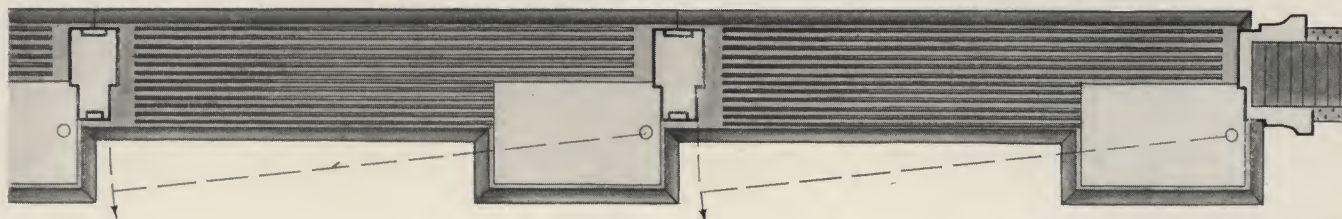
Typical Construction of Door Sill with cut-out for Floor Hinges

(Double Doors)



Typical Construction of Door Sills with cut-out for Floor Hinges (Rixson Hinges) and cut-out for Mullions or Columns

(Single Doors)

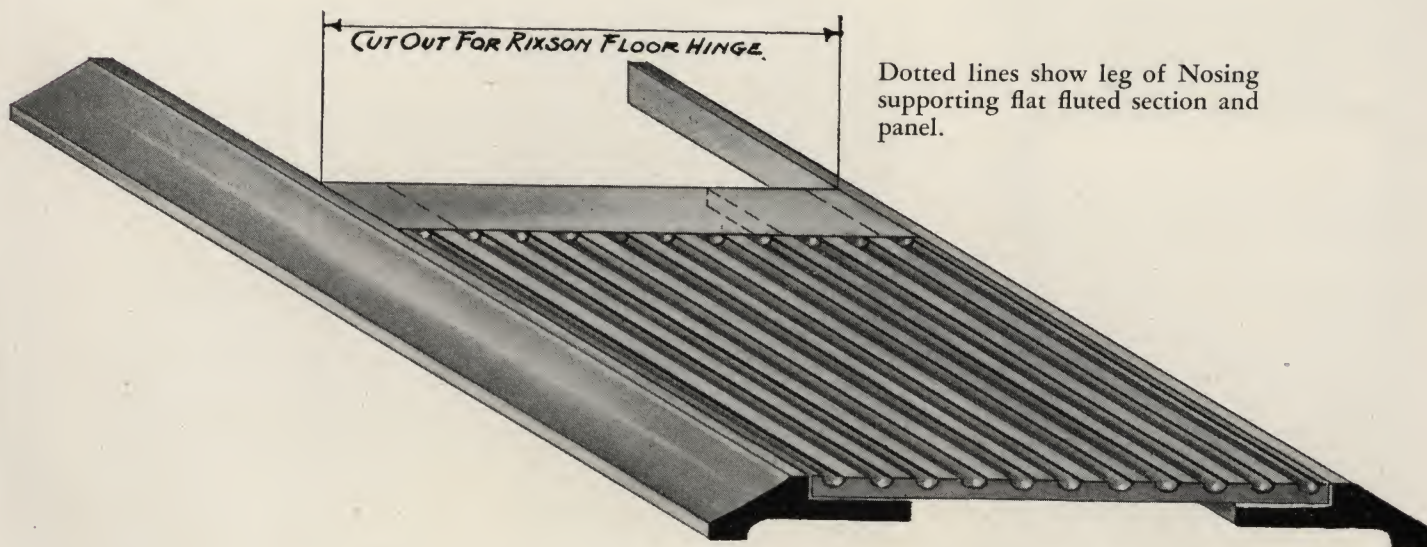


Thresholds with cut-outs for Mullions or Columns may be constructed easily and at low cost. The flat members (fluted or plain) may be cut out or notched out to fit the Mullion, Column or Jamb BEFORE assembling. Saddles constructed in this manner will fit perfectly and may be set at a minimum expense for field labor.

NO PATTERNS
NO BREAKAGE

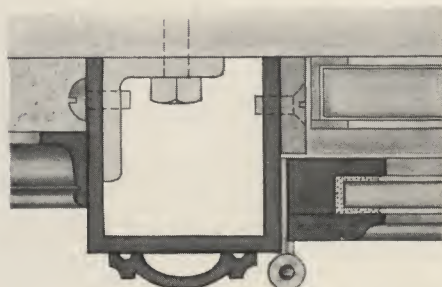
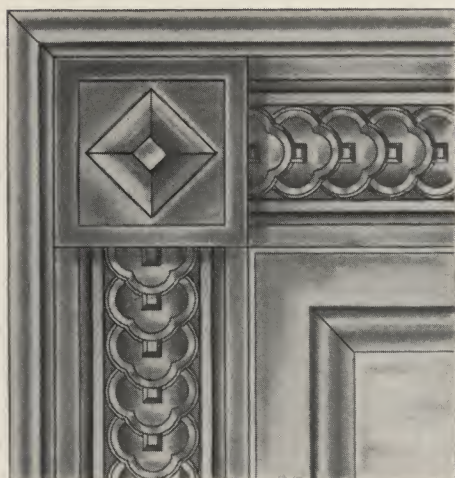
NO WAITING
NO IMPERFECTIONS
LOW IN COST

NO STRAIGHTENING
NO ERRORS



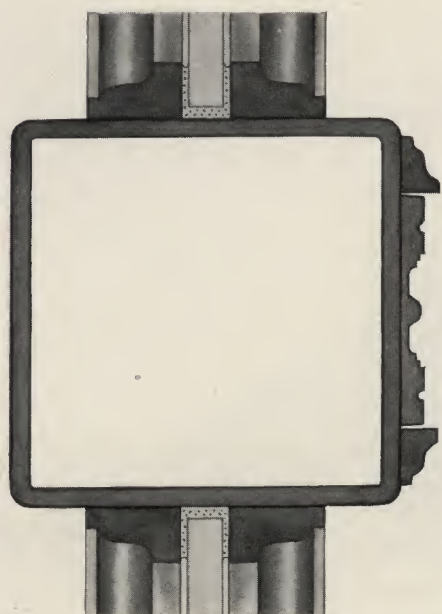
Detail section through
fluted part of saddle

Directory or Sign Board



Specification: Frame—Channel No. 4752 trimmed with Moulding No. 5051. *Corner*—Square plate with Forged Nail No. 64 in center. Moulding No. 4121 used as plaster stop. *Hinged Glass Frame*—Moulding No. 4460 with No. 4450.

The board is fastened to the wall by angle knees, concealed inside the channel frame.



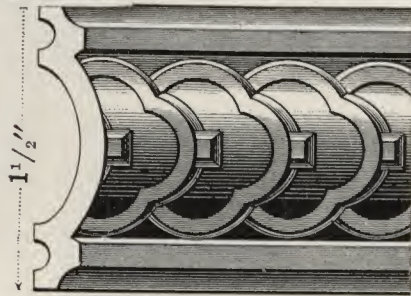
MULLION

Specification: Hot Rolled 4" x 4" x $\frac{3}{16}$ " Square Steel Tubing trimmed with Mouldings Nos. 5201 and 4258. Glass frame Moulding No. 4256 (stationary). For swinging glass frames, use Mouldings Nos. 4625, 4626, 4627, 4628, 4629.

(For other Mullion Constructions, see Pages Nos. 48, 56.)

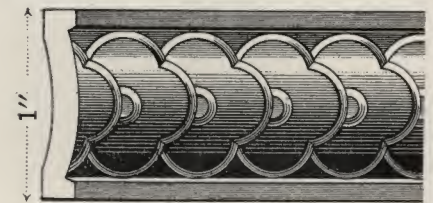
Details shown are ONE-HALF actual size.

No. 5051



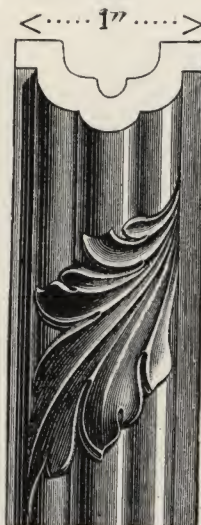
.93 lb.

No. 5050



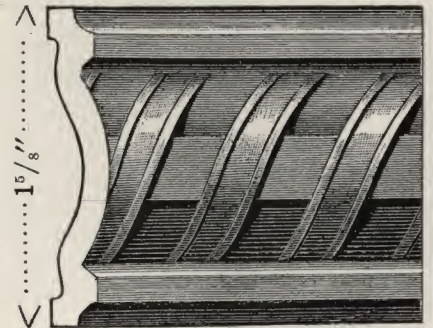
.49 lb.

No. 5002



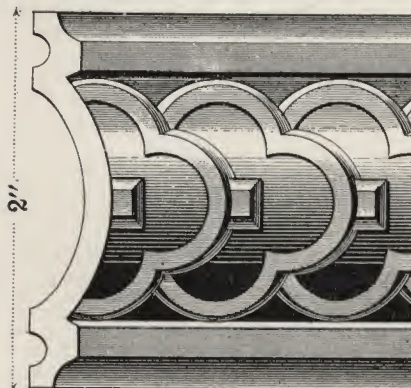
.57 lb.

No. 5003



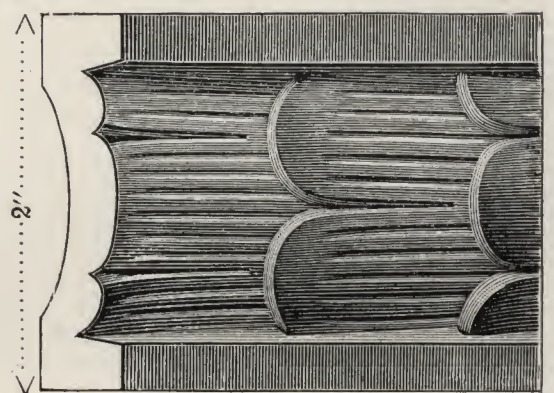
1.11 lb.

No. 5052



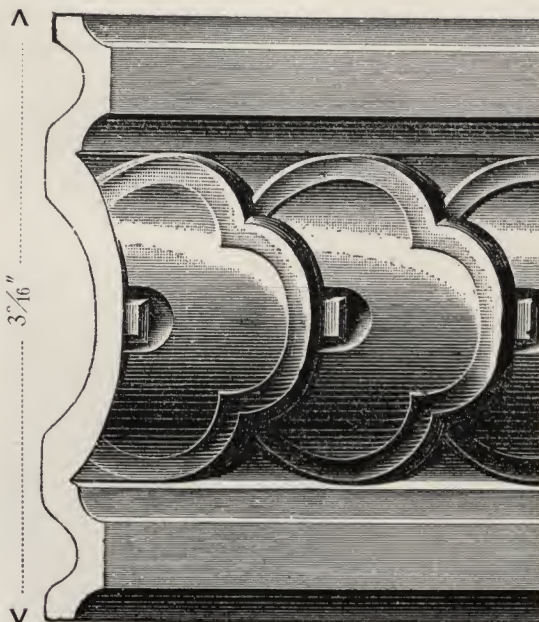
1.38 lb.

No. 5005



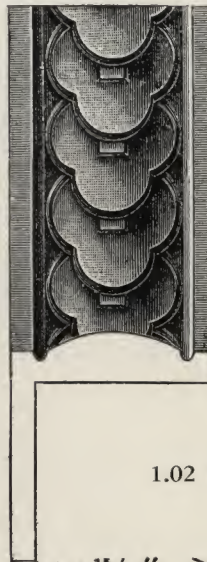
1.75 lb.

No. 5054



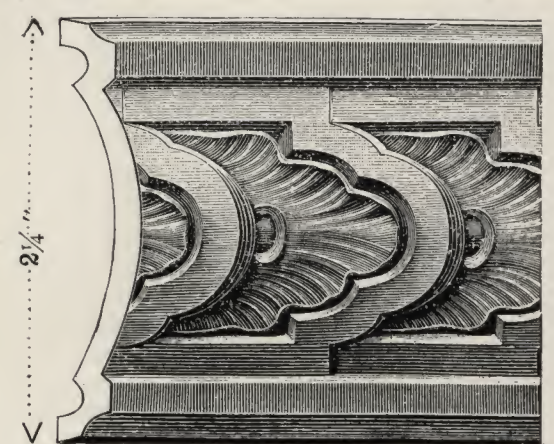
2.00 lb.

No. 5063



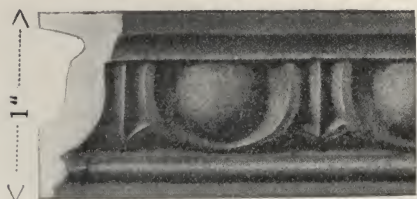
1.02 lb.

No. 5053



1.50 lb.

No. 5170



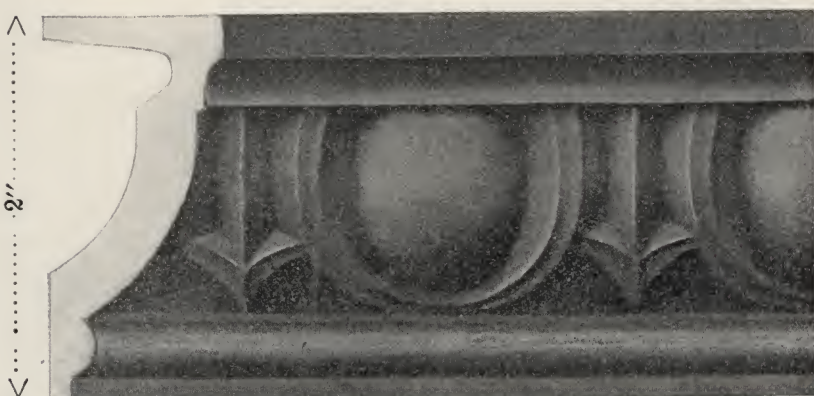
.67 lb.

No. 5171



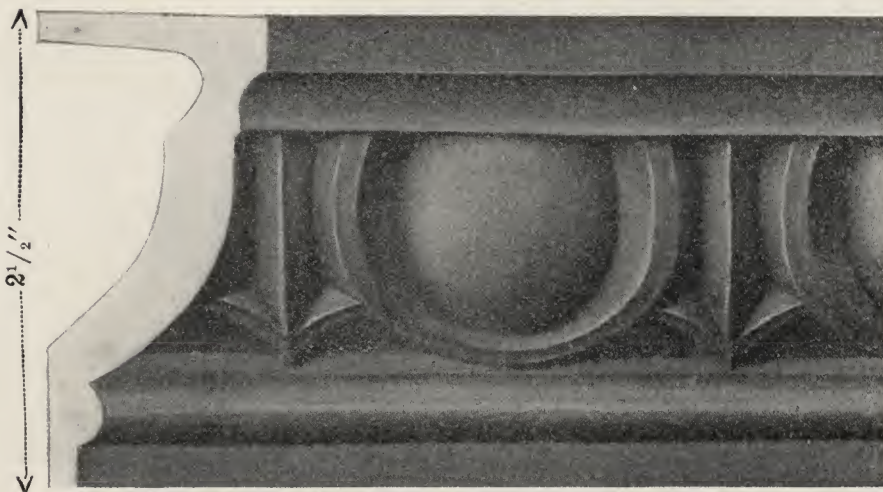
1.32 lb.

No. 5172



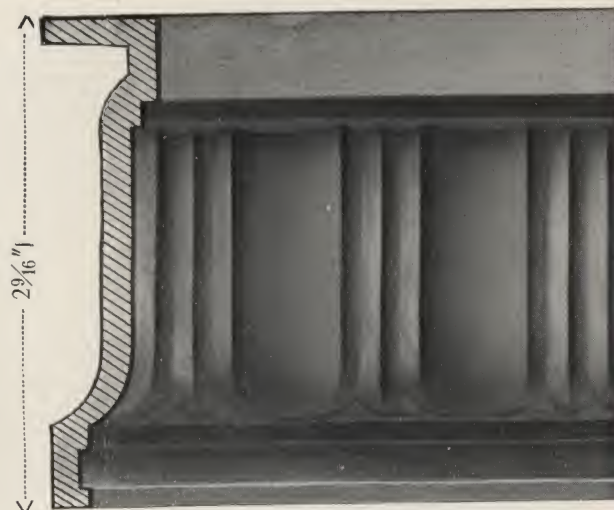
2.24 lb.

No. 5173



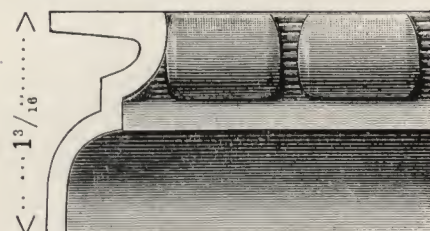
3.25 lb.

No. 5174



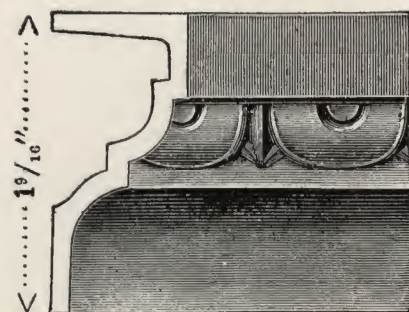
1.55 lb.

No. 5155



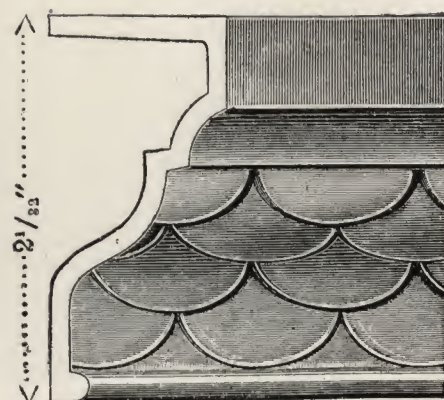
.80 lb.

No. 5156



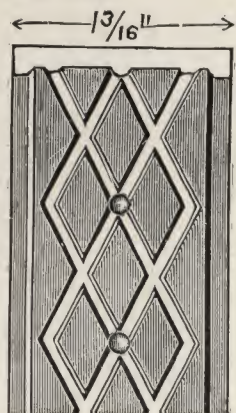
1.05 lb.

No. 5157



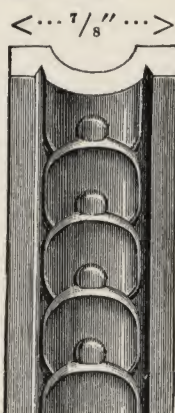
1.40 lb.

No. 5023



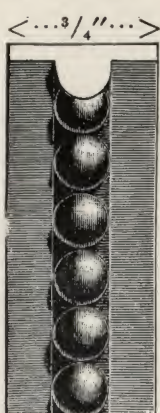
.51 lb.

No. 5024



.40 lb.

No. 5013



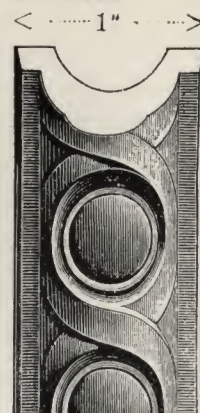
.38 lb.

No. 5020



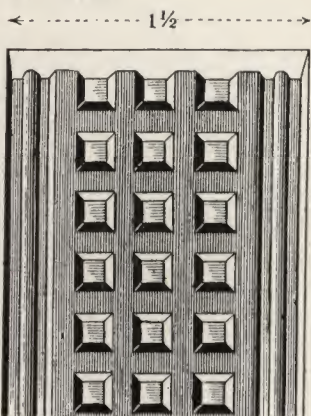
.25 lb.

No. 5001



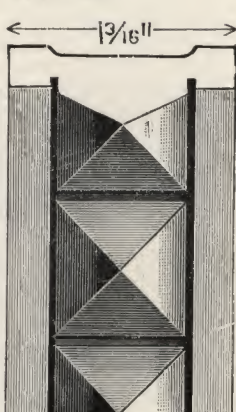
.67 lb.

No. 5062



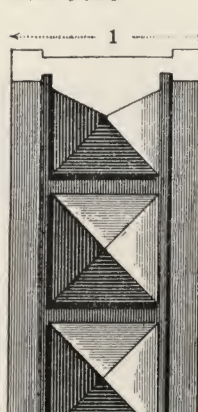
.64 lb.

No. 5027



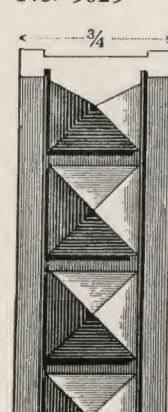
.68 lb.

No. 5026



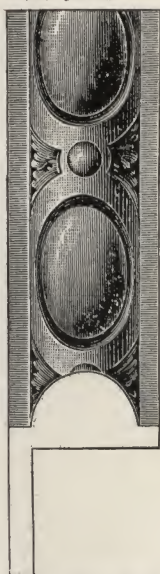
.50 lb.

No. 5025



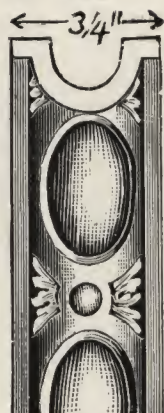
.42 lb.

No. 5010



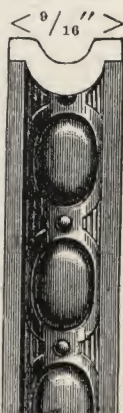
.76 lb.

No. 5021



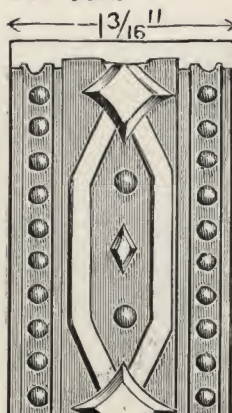
.48 lb.

No. 5000



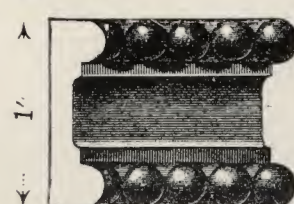
.29 lb.

No. 5022



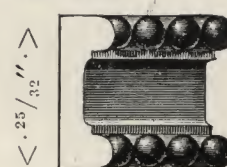
.50 lb.

No. 5012



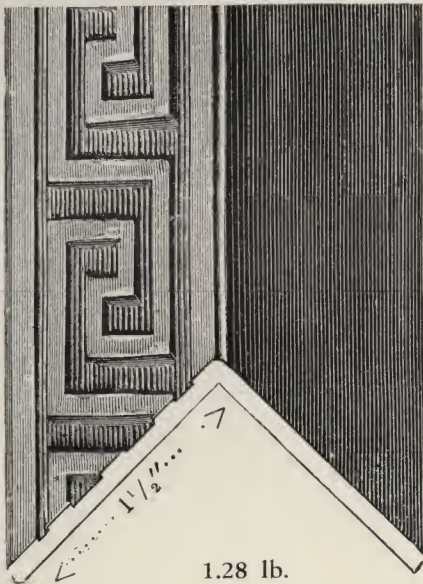
.65 lb.

No. 5011

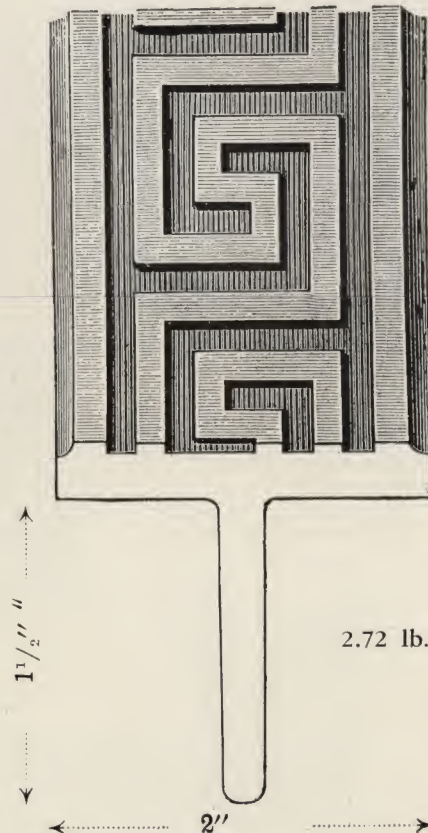


.49 lb.

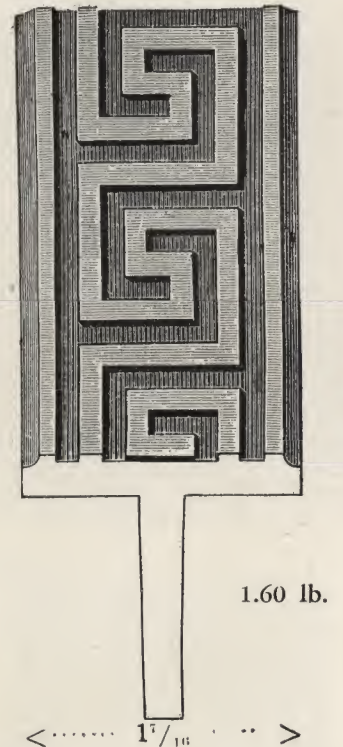
No. 5106



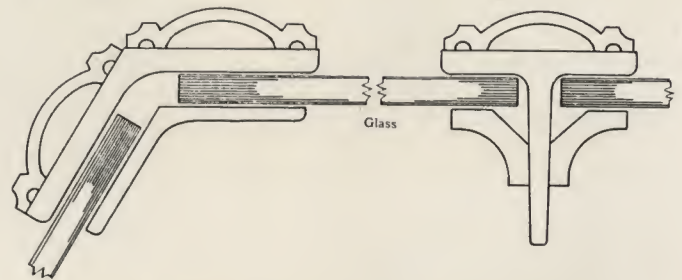
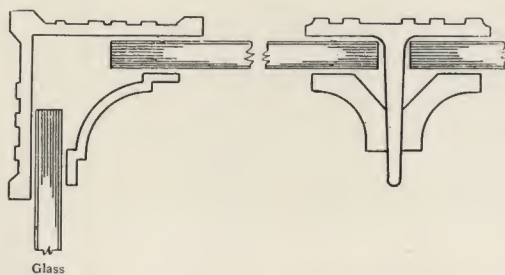
No. 5107



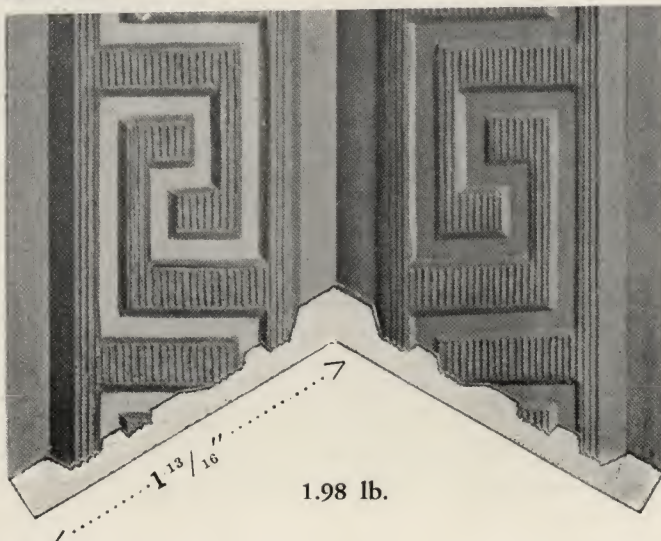
No. 5108



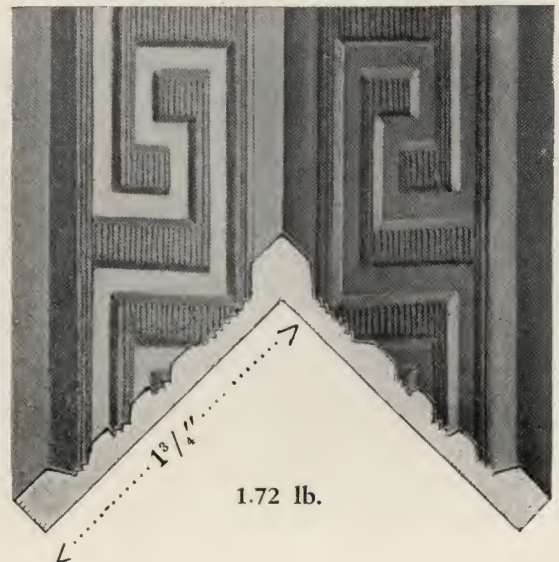
Showing Store Front or similar Glass Construction using (left) Mouldings Nos. 5102 and 5107 with Nos. 4320 and 4105 for glass stop. (right) Angle No. 4648 with Moulding No. 5052. Angle No. 4647 and Moulding No. 4105 used for glass stop.



No. 5100



No. 5102

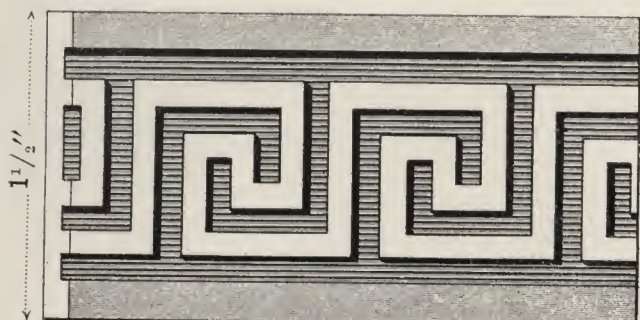


No. 5070



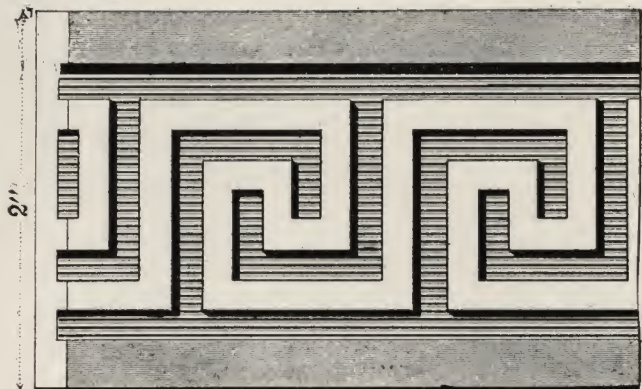
.36 lb.

No. 5071



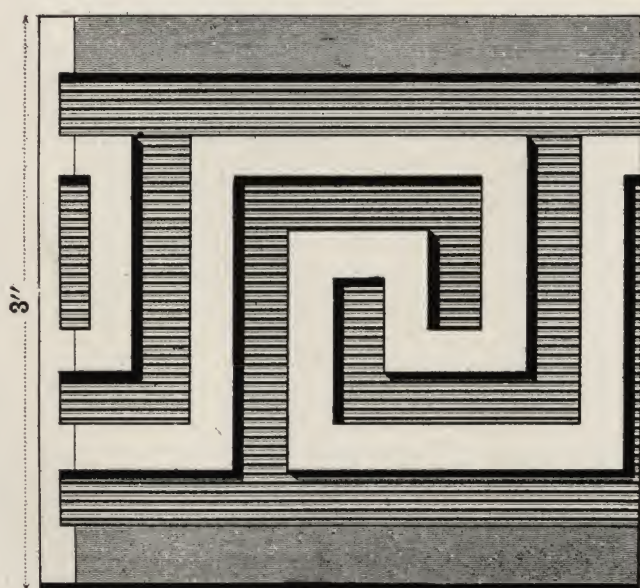
.52 lb.

No. 5072



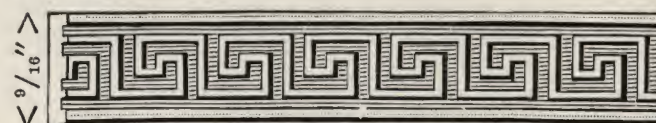
1.00 lb.

No. 5074



1.60 lb.

No. 5061



.19 lb.

No. 5060



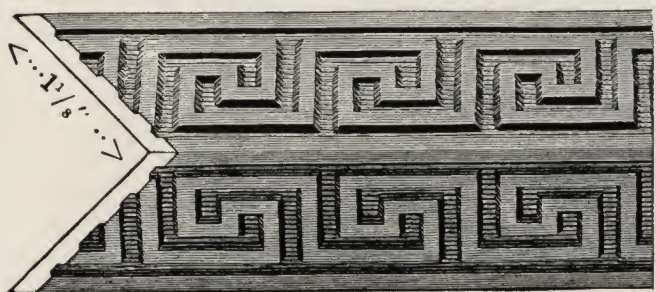
.24 lb.

No. 5105

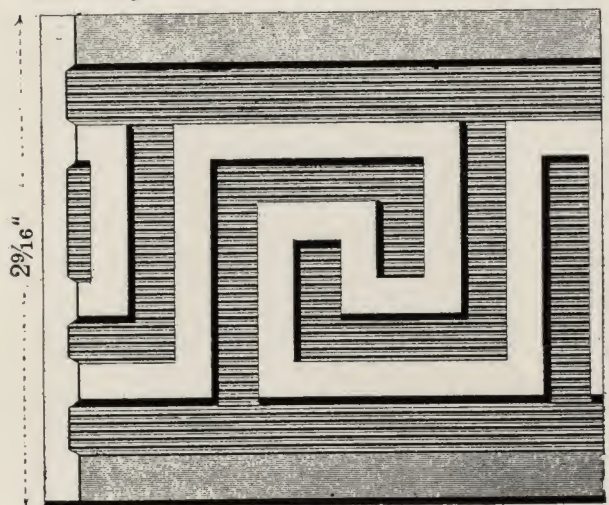


.78 lb.

No. 5101

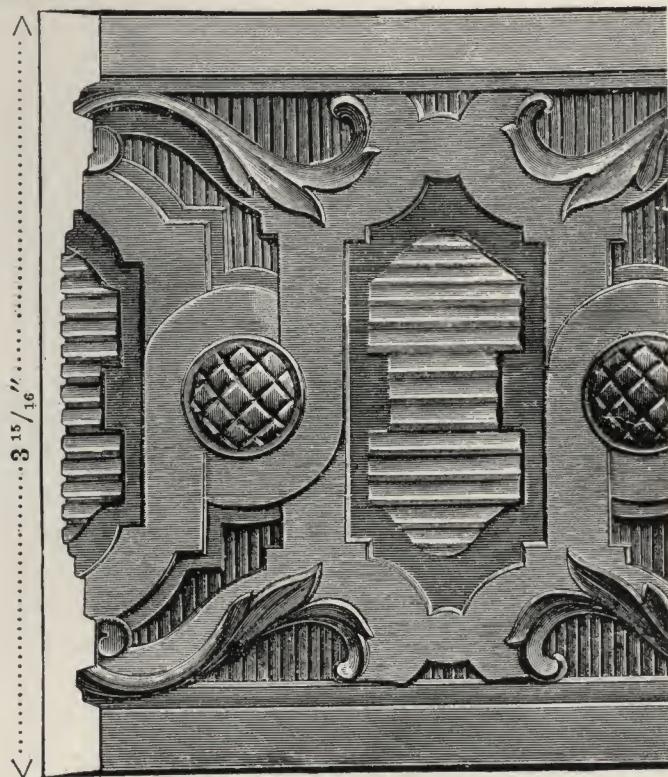


No. 5073



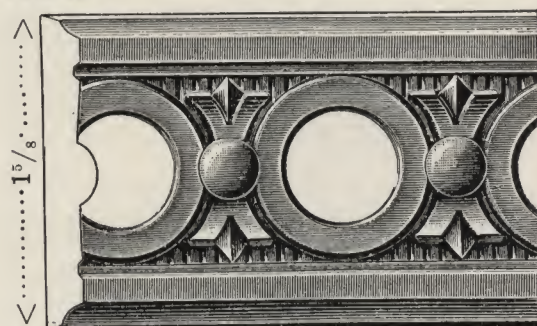
1.27 lb.

No. 5203



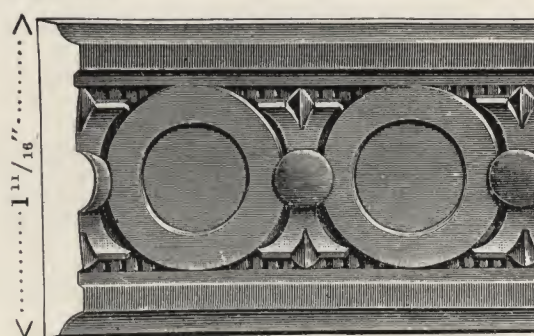
3.07 lb.

No. 5211



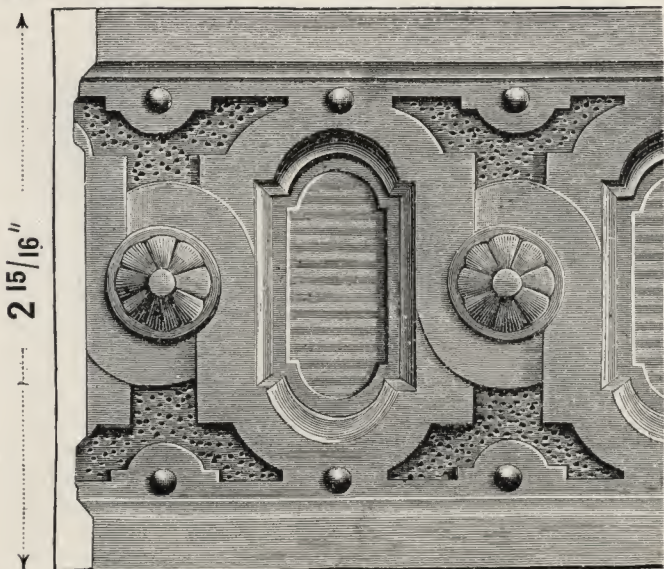
.90 lb.

No. 5112



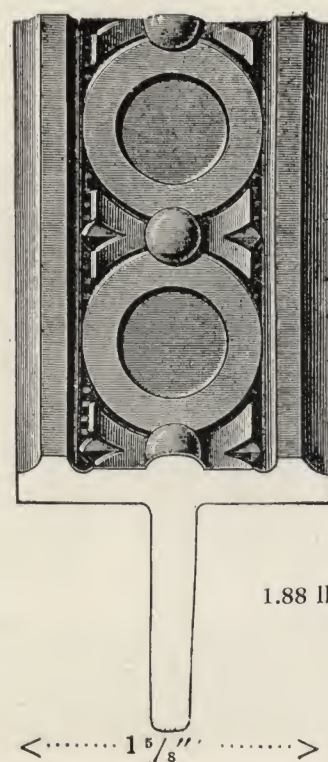
.96 lb.

No. 5212



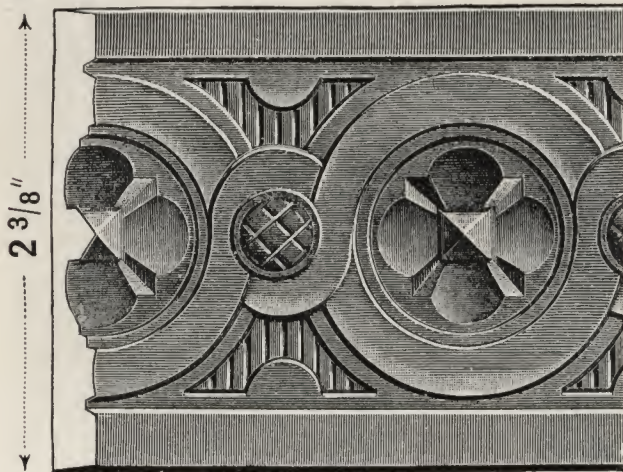
2.31 lb.

No. 5111



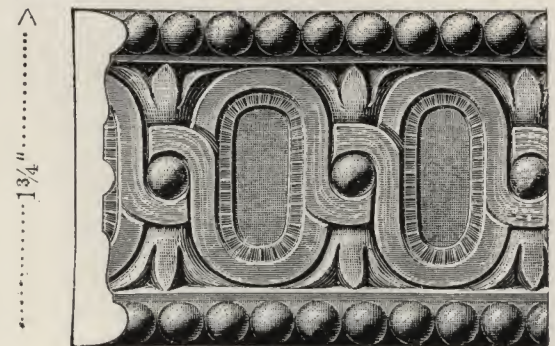
1.88 lb.

No. 5201



1.88 lb.

No. 5210



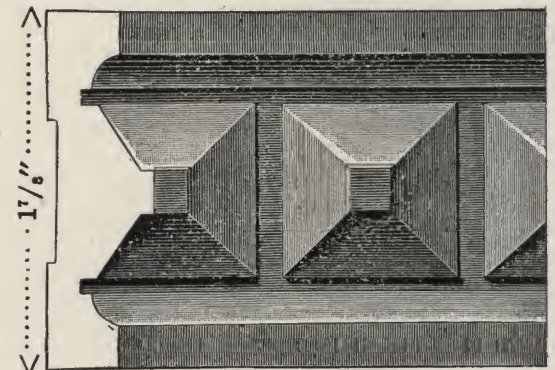
1.21 lb.

No. 5213



1.96 lb.

No. 5004



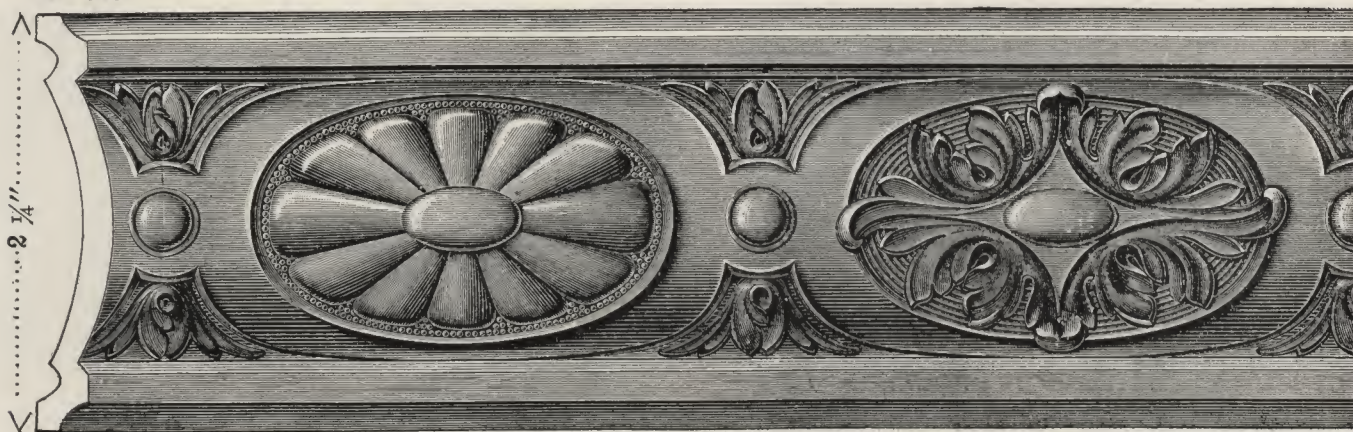
2.10 lb.

No. 5200



1.16 lb.

No. 5252



1.41 lb.

No. 5251



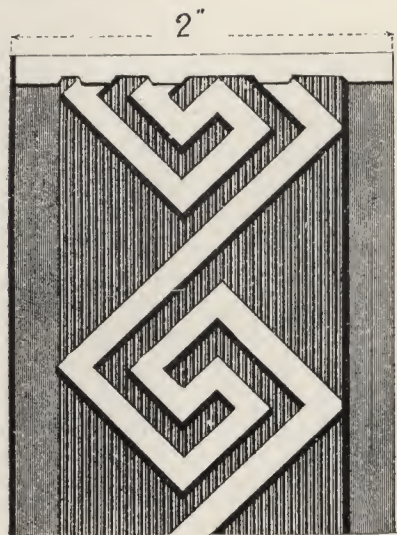
2.20 lb.

No. 5250



2.23 lb.

No. 5161



.98 lb.

No. 5160



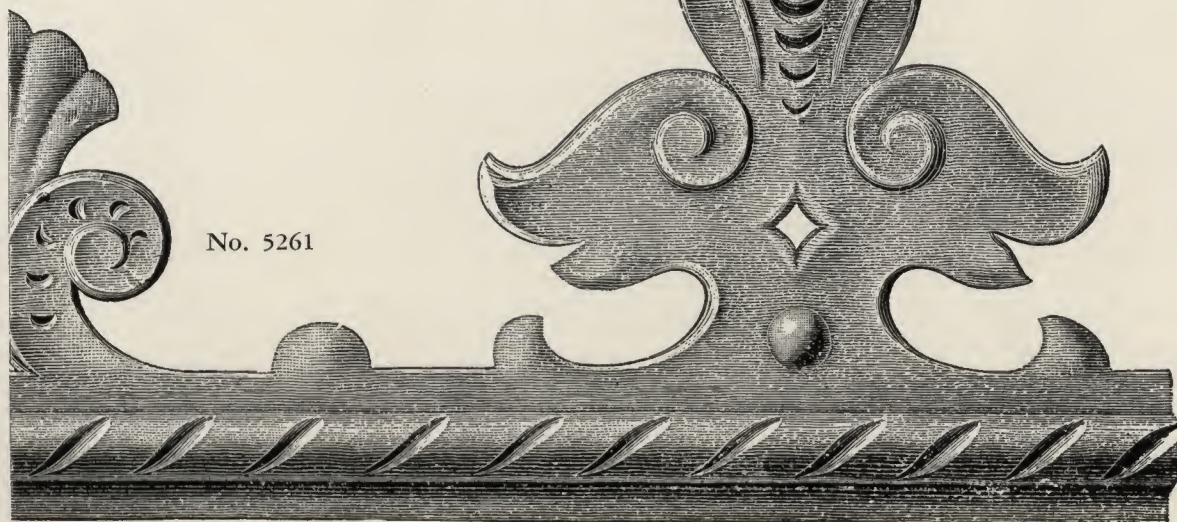
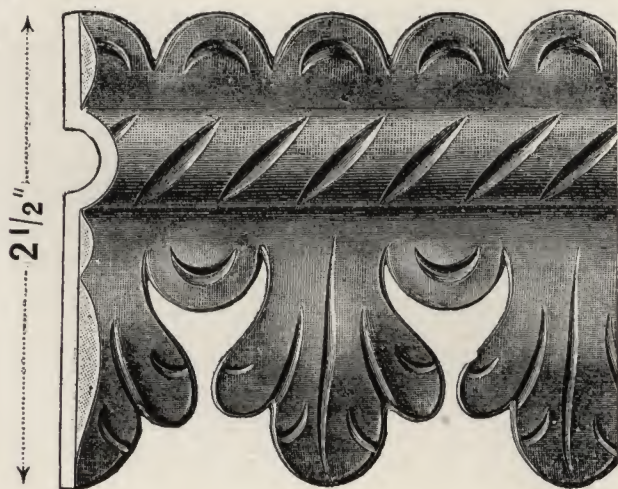
.57 lb.

No. 5214

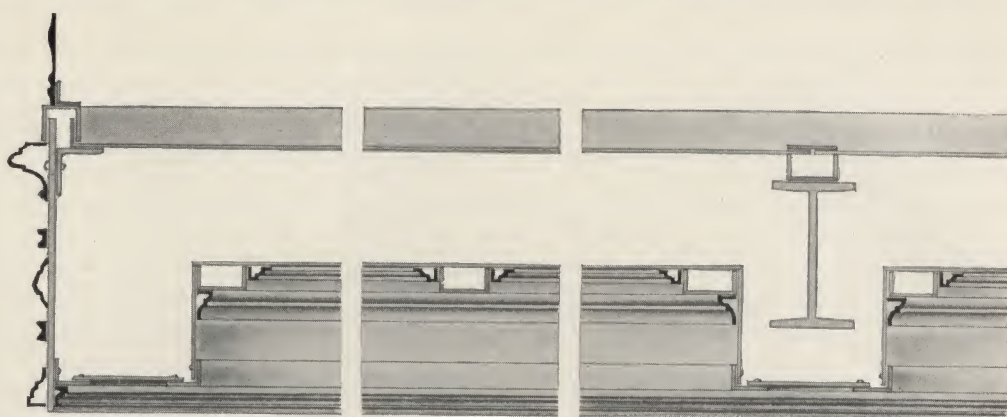
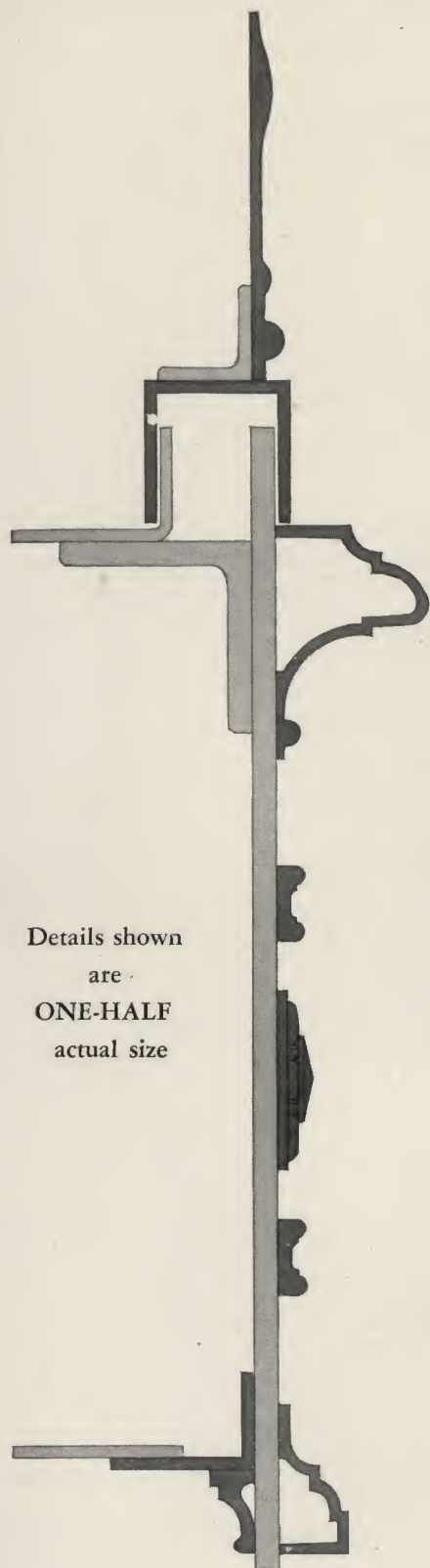


.64 lb.

No. 5260



No. 5261



Inverted Plan
of Ceiling



Details shown
are
ONE-HALF
actual size

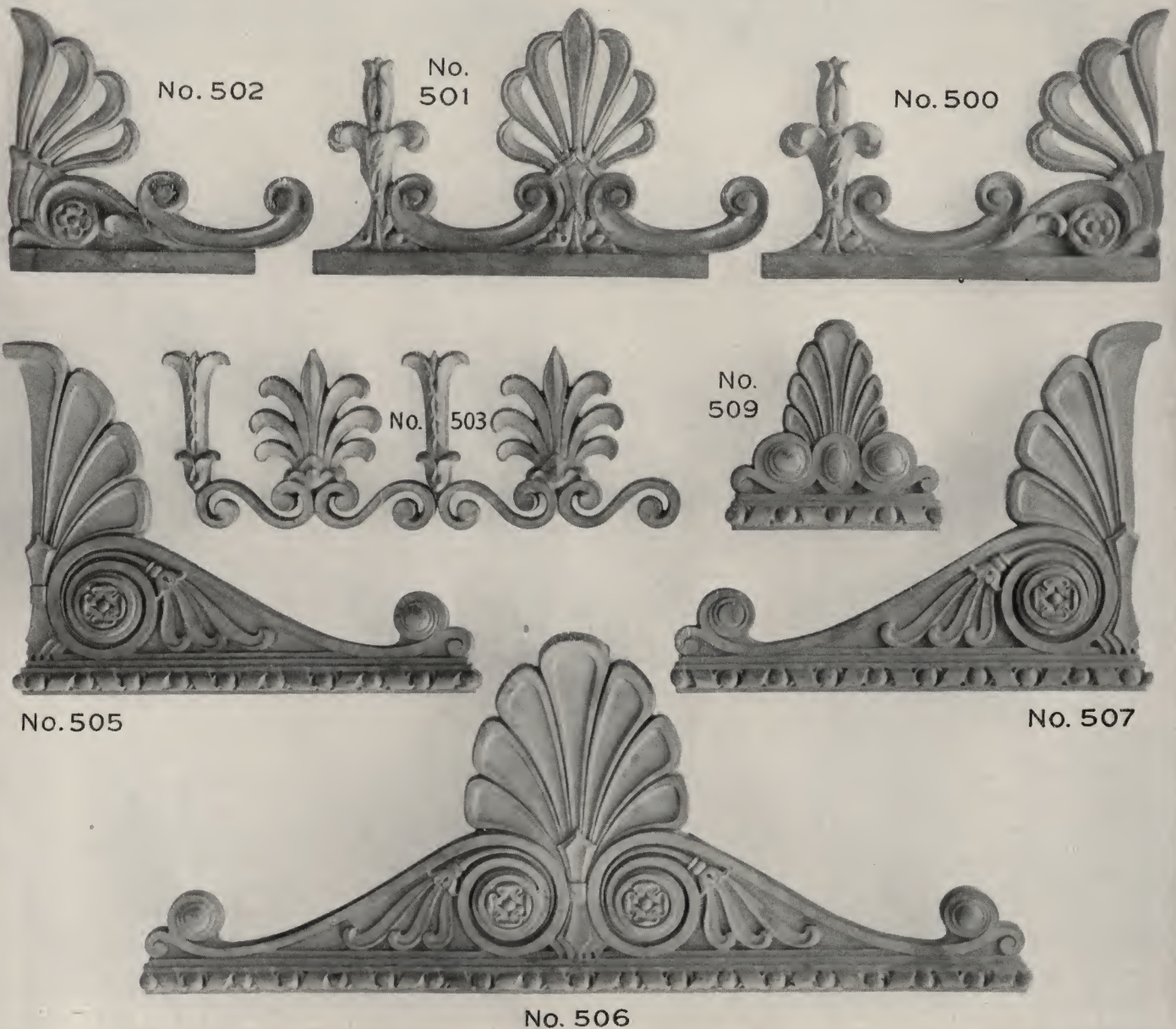


MARQUISE CONSTRUCTION

Specification: *Frame*—Plate or Channel trimmed with Mouldings Nos. 4279, 4210, 4151, ornamented with Pressed Steel Rosettes or Applied Designs (see Pages Nos. 50-53); *Cresting*—Channel No. 4751 with Moulding No. 5261 or Cast Iron Crestings (see Page No. 97); *Ceiling* paneled with Mouldings Nos. 4203, 4150, 4156.

CAST IRON CRESTINGS

For the Construction of Marquises, Awning Boxes, Show Cases, Etc.



Illustrations shown are ONE-QUARTER actual size.

Corners Nos. 500 and 502 and Corners Nos. 505 and 507 are cast on a mitre and will form a perfect right or left corner. Corners Nos. 505 and 507 and Centers Nos. 506 and 509 have lugs in back for fastening. Crestings Nos. 500, 501, 502 and 503 form a continuous, interlocking design. Crestings Nos. 505, 506, 507, 509 can be used as a continuous design or they may be spaced at intervals.

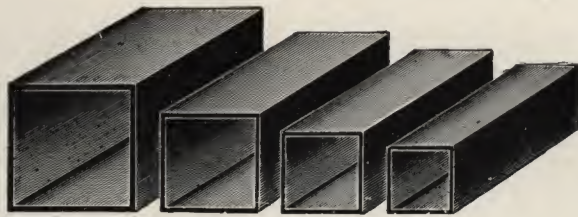
Our Cast Iron Crestings are a Finished Product of Superb Quality

NO PATTERNS

NO WAITING

NO FINISHING

Cold Drawn Mechanical Steel Tubing



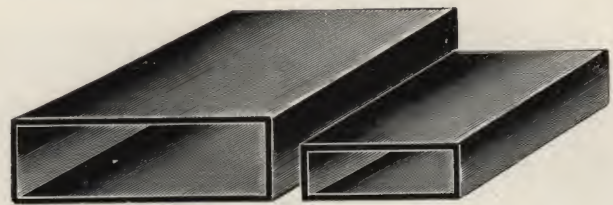
SQUARE

$\frac{3}{8}$ " x $\frac{3}{8}$ " x No. 18 ga.
$\frac{1}{2}$ " x $\frac{1}{2}$ " x No. 16 ga.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x No. 16 ga.
$\frac{3}{4}$ " x $\frac{3}{4}$ " x No. 16 ga.
$\frac{7}{8}$ " x $\frac{7}{8}$ " x No. 16 ga.
1 " x 1 " x No. 16 ga.
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x No. 14 ga.
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x No. 14 ga.
$1\frac{3}{4}$ " x $1\frac{3}{4}$ " x No. 14 ga.
2 " x 2 " x No. 14 ga.
$2\frac{1}{2}$ " x $2\frac{1}{2}$ " x No. 14 ga.
3 " x 3 " x No. 14 ga.

COLD DRAWN SEAMLESS SQUARE STEEL TUBING (Soft Annealed)

$\frac{3}{8}$ " x $\frac{3}{8}$ " x No. 20 ga.
$\frac{1}{2}$ " x $\frac{1}{2}$ " x No. 20 ga.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x No. 20 ga.
$\frac{3}{4}$ " x $\frac{3}{4}$ " x No. 20 ga.

Seamless Square Steel Tubing on account of its soft anneal lends itself advantageously to bending, twisting and shaping operations.



RECTANGULAR

$\frac{3}{8}$ " x $\frac{3}{4}$ " x No. 16 ga.	2 " x $\frac{5}{8}$ " x No. 14 ga.
$\frac{3}{8}$ " x 1 " x No. 16 ga.	2 " x 1 " x No. 14 ga.
$\frac{5}{8}$ " x 2 " x No. 14 ga.	2 " x $1\frac{1}{4}$ " x No. 14 ga.
$\frac{3}{4}$ " x $\frac{3}{8}$ " x No. 16 ga.	2 " x $1\frac{1}{2}$ " x No. 14 ga.
$\frac{3}{4}$ " x $1\frac{1}{2}$ " x No. 14 ga.	2 " x 3 " x No. 14 ga.
1 " x $\frac{3}{8}$ " x No. 16 ga.	2 " x 4 " x No. 14 ga.
1 " x $1\frac{1}{2}$ " x No. 14 ga.	$2\frac{1}{2}$ " x 1 " x No. 14 ga.
1 " x 2 " x No. 14 ga.	$2\frac{1}{2}$ " x $1\frac{1}{4}$ " x No. 14 ga.
1 " x $2\frac{1}{2}$ " x No. 14 ga.	$2\frac{1}{2}$ " x $1\frac{1}{2}$ " x No. 14 ga.
1 " x 3 " x No. 14 ga.	3 " x 1 " x No. 14 ga.
1 " x $3\frac{1}{2}$ " x No. 14 ga.	3 " x $1\frac{1}{4}$ " x No. 14 ga.
$1\frac{1}{4}$ " x $1\frac{3}{4}$ " x No. 14 ga.	3 " x $1\frac{1}{2}$ " x No. 14 ga.
$1\frac{1}{4}$ " x 2 " x No. 14 ga.	3 " x 2 " x No. 14 ga.
$1\frac{1}{4}$ " x $2\frac{1}{2}$ " x No. 14 ga.	$3\frac{1}{2}$ " x 1 " x No. 14 ga.
$1\frac{1}{4}$ " x 3 " x No. 14 ga.	$3\frac{1}{2}$ " x $1\frac{1}{4}$ " x No. 14 ga.
$1\frac{1}{4}$ " x $3\frac{1}{2}$ " x No. 14 ga.	$3\frac{1}{2}$ " x $1\frac{1}{2}$ " x No. 14 ga.
$1\frac{1}{2}$ " x $\frac{3}{4}$ " x No. 14 ga.	4 " x 2 " x No. 14 ga.
$1\frac{1}{2}$ " x 1 " x No. 14 ga.	
$1\frac{1}{2}$ " x 2 " x No. 14 ga.	
$1\frac{1}{2}$ " x $2\frac{1}{2}$ " x No. 14 ga.	
$1\frac{1}{2}$ " x 3 " x No. 14 ga.	
$1\frac{1}{2}$ " x $3\frac{1}{2}$ " x No. 14 ga.	
$1\frac{3}{4}$ " x $1\frac{1}{4}$ " x No. 14 ga.	

OUTSIDE MEASUREMENTS

Cold Drawn Mechanical Tubing can be used to advantage for Ornamental and Architectural Iron and Wire Work, such as:

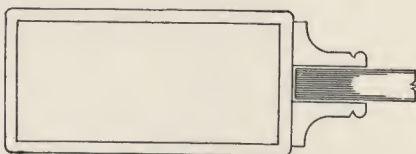
Vestibule Doors
Elevator Cages
Brackets
Railings

Elevator Doors
Gates
Store Fronts
Posts of All Kinds

Elevator Enclosures
Window Frames
Partitions
Radiator Covers

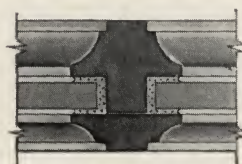
Balusters
Lamps
Furniture
Curtain Poles

On account of its smooth and even finish, this tubing is especially suitable for POLISHING, PLATING and ENAMELING.

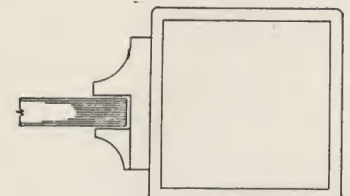
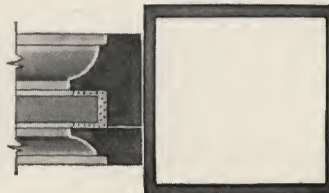


Rectangular Steel Tubing with Moulding
No. 4121

Showing the use of square and rectangular steel tubes with Rolled Steel Mouldings for forming glass frames of vestibule and elevator doors and for partition work.

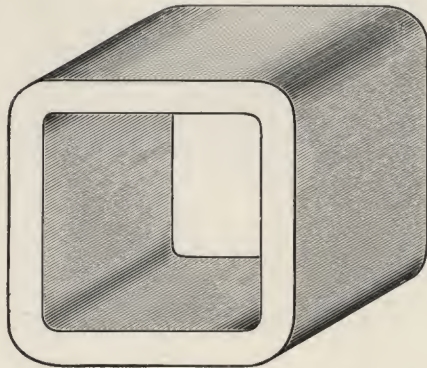


Square Steel Tubing with Mouldings
Nos. 4620, 4621, 4473, 4474



Square Steel Tubing with Mouldings
Nos. 4603 and 4101.

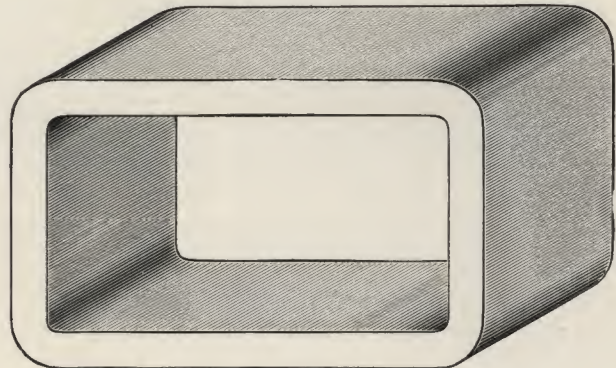
Hot Rolled Welded Square and Rectangular Steel Tubing (with Slightly Rounded Corners)



SQUARE

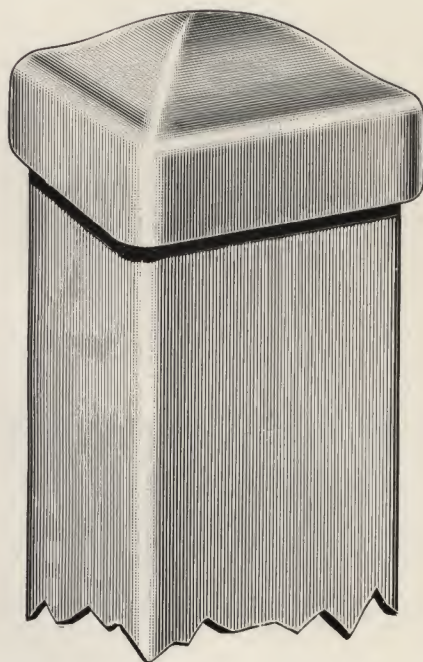
1" x 1" x $\frac{1}{8}$ "
 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x .135"
 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x .140"
 2" x 2" x $\frac{9}{64}$ "
 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x $\frac{3}{16}$ "
 3" x 3" x $\frac{3}{16}$ "
 3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x $\frac{3}{16}$ "
 3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x .150"
 4" x 4" x $\frac{3}{16}$ "

OUTSIDE
MEASUREMENTS



RECTANGULAR

2 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x $\frac{9}{64}$ "
 3" x 2" x $\frac{3}{16}$ "
 3" x 6" x $\frac{3}{16}$ "
 3" x 8" x $\frac{3}{16}$ "
 4" x 6" x $\frac{3}{16}$ "
 4" x 8" x $\frac{3}{16}$ "

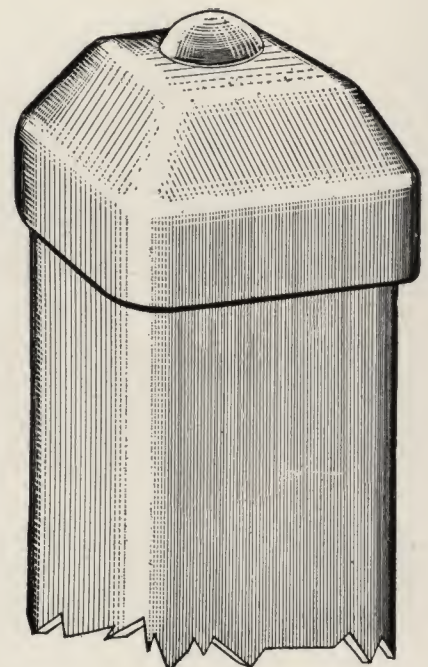


ALL STEEL STAIR POSTS

HOT ROLLED SQUARE AND RECTANGULAR STEEL TUBING on account of its strength and neat appearance is especially suited for the construction of Newel and Fence Posts, Railings, Columns, etc.

We carry in stock Pressed Steel and Cast Iron Caps and Drops to fit over the ends of the tubing (see page No. 20 for details).

For construction details of Ornamented Posts see Page No. 21.



STRONGER THAN CAST IRON

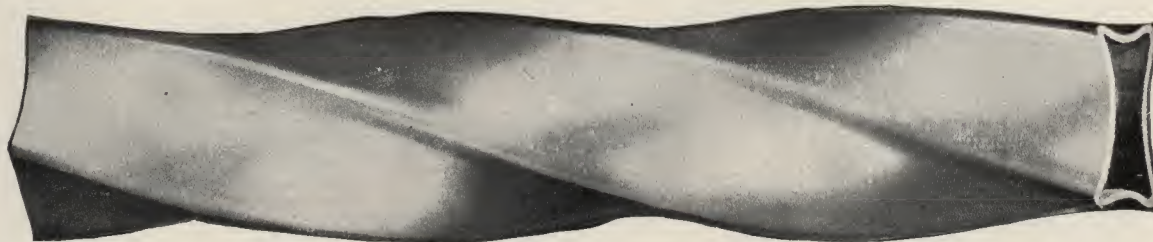
NO BREAKAGE

NO DELAY

FIREPROOF

SANITARY

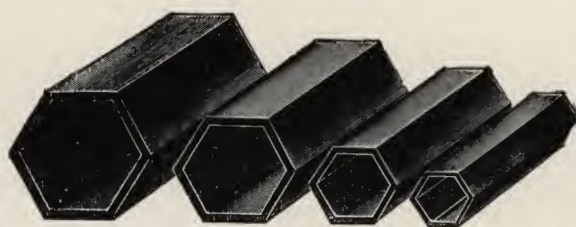
Twisted Square Steel Tubing



$\frac{1}{2}$ " x $\frac{1}{2}$ " x 20 gauge
 $\frac{5}{8}$ " x $\frac{5}{8}$ " x 20 gauge
 $\frac{3}{4}$ " x $\frac{3}{4}$ " x 20 gauge
 $\frac{7}{8}$ " x $\frac{7}{8}$ " x 20 gauge

1" x 1" x 20 gauge
 $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x 20 gauge
 $1\frac{1}{2}$ " x $1\frac{1}{2}$ " x 18 gauge
2" x 2" x 18 gauge

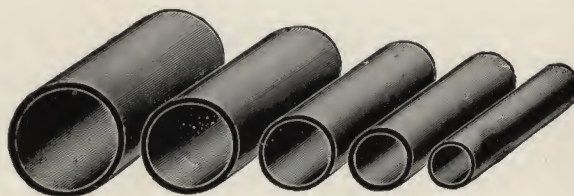
HEXAGON STEEL TUBING



(Measurements are taken across flat sides)

$\frac{5}{8}$ " x 20 gauge
 $\frac{3}{4}$ " x 20 gauge
 $\frac{7}{8}$ " x 20 gauge
 $1\frac{1}{16}$ " x 20 gauge

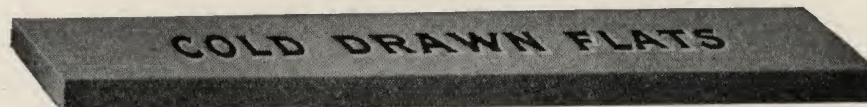
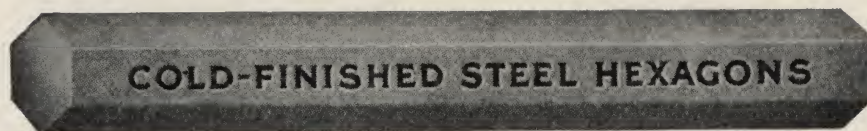
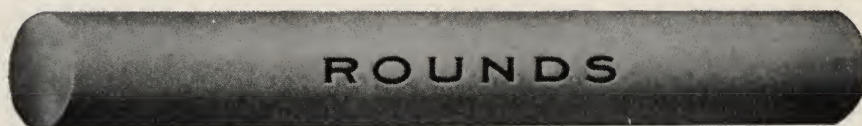
COLD DRAWN SEAMLESS MECHANICAL STEEL TUBING (Round)



Carried in stock in a large variety of sizes and gauges from $\frac{1}{4}$ " up to 6" diameter.

Over 500 sizes carried in stock.

Cold Drawn Bright Finish Mechanical Steel Sections



We carry in stock a special grade of fully Cold Rolled or Cold Drawn Steel in Rounds, Squares, Hexagons and Flats for work requiring a polished and plated surface. These sections are Cold Drawn or Cold Rolled to exact dimensions, perfectly straight, with sharp edges and with smooth surface.

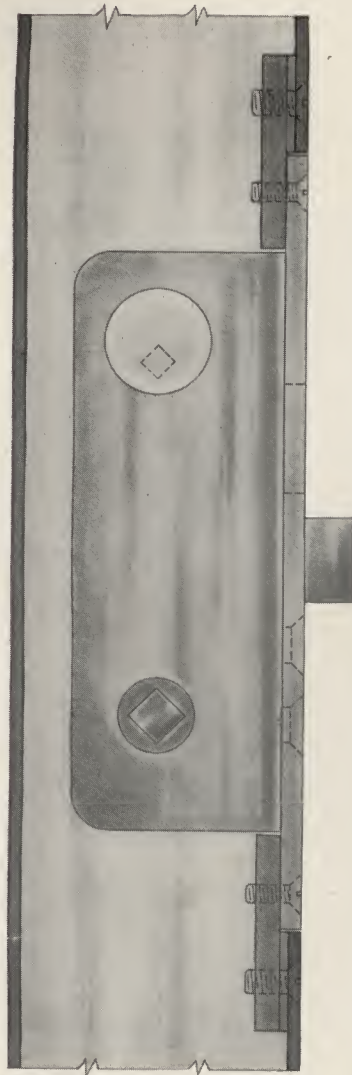
COLD DRAWN BRIGHT FINISH MECHANICAL STEEL SECTIONS are carried in stock in a large variety of sizes from $\frac{1}{16}$ " up to 6".

On account of their smooth surface COLD DRAWN BRIGHT FINISH MECHANICAL STEEL SECTIONS are especially suited for polished and plated architectural and ornamental iron work. They require no grinding, polishing, acid cleaning and are, therefore, better and more economical in use than Hot Rolled Steel Bars.

We also carry in stock GROUND AND POLISHED ROUND STEEL BARS, from $\frac{3}{16}$ " to 4". These bars have a perfect, mirror-like surface, are free from pits, straight and true to round.

We also carry in stock COLD ROLLED STRIP STEEL in a large variety of sizes, gauges and tempers from $\frac{1}{64}$ " to $\frac{3}{8}$ " thick.

Method of Constructing Door Frames by Means of Square or Rectangular Steel Tubing



Side View



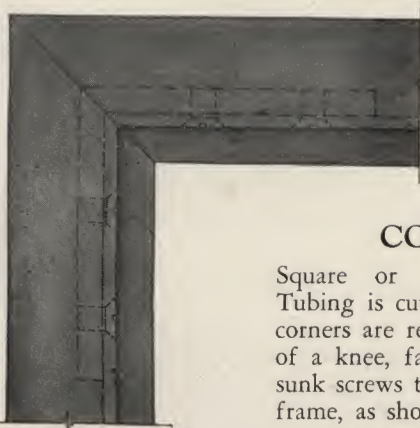
Front View

Method of Fastening Lock Into Tubular Door Frame

The tubing is cut out in front to receive the lock. Flat bars with drilled and tapped holes are fastened to the inside of the tubing and the lock is attached to these bars as shown. The sides of the tubing are cut out to receive the cylinder and the handles.

Method of Fitting Hinges Into Tubular Door Frame

The tubing is cut out in two (or three) places to receive one wing of each ball bearing hinge. The same side of the tubing is reinforced on the inside with a heavy flat bar which may extend the entire length of the tube. This bar is drilled and tapped to receive the hinges and helps to carry the weight of the door.

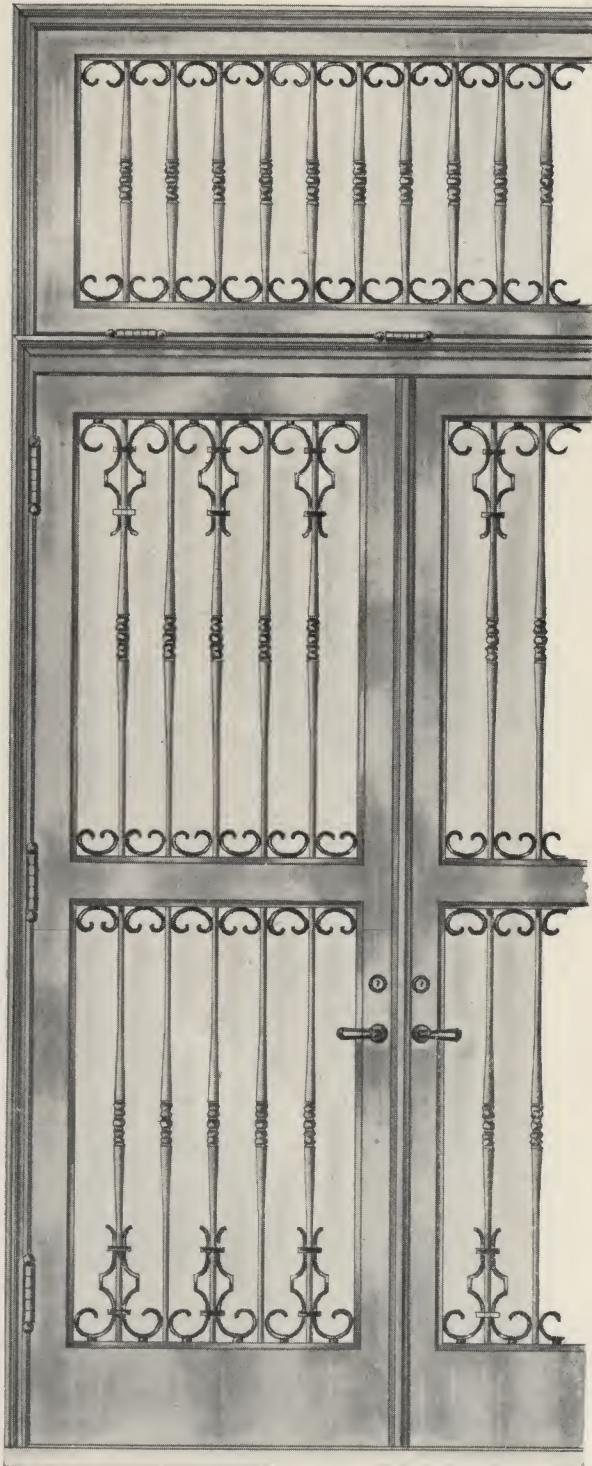


CORNER

Square or Rectangular Steel Tubing is cut on a mitre. The corners are reinforced by means of a knee, fastened by counter-sunk screws to the inside of the frame, as shown.

For additional information regarding door construction, see Pages Nos. 44, 54, 64, 65 and 102.

DOOR

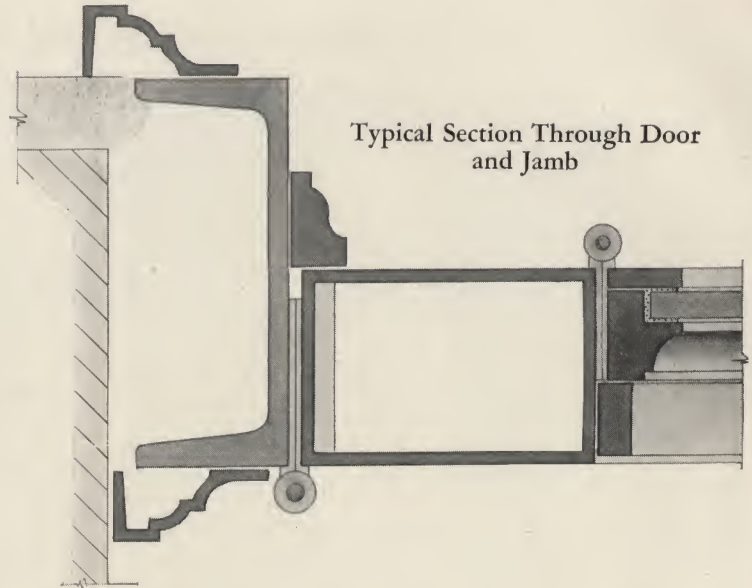


Grille: Hollow Tubular Spindles (or solid Forged Spindles). Scrolls forged from flat bars, spaced from frame by forged round or oval Balls.

Astragal: Moulding No. 4463.

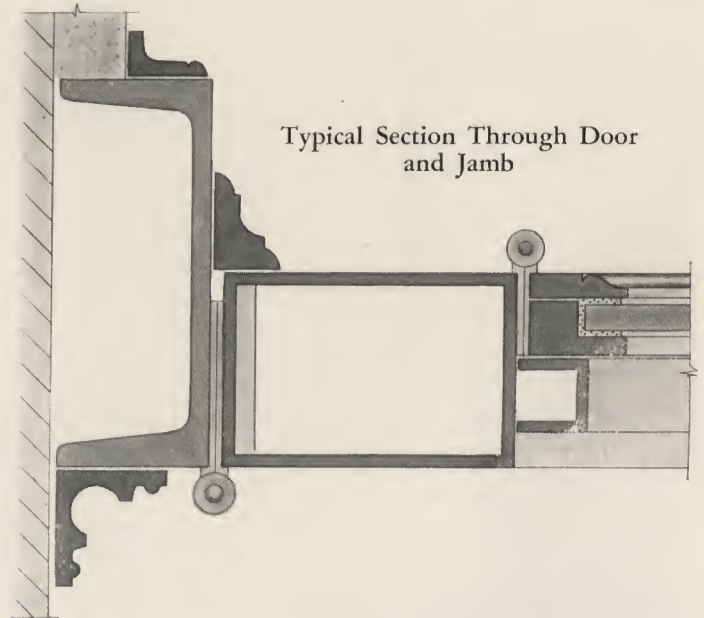
Door Frame: Cold Drawn Rectangular Steel Tubing 3" x 2" x No. 14 gauge.

Hardware: Ball Bearing Hinges, Loose Pin Butts, Cylinder Lock, Octagon Handles, Flush Bolt (See pages Nos. 103-105 for details).



Typical Section Through Door and Jamb

(Above) Channel trimmed both sides with Moulding No. 4151
Striking bar Moulding No. 4256
Hinged glass frame Moulding No. 4620



Typical Section Through Door and Jamb

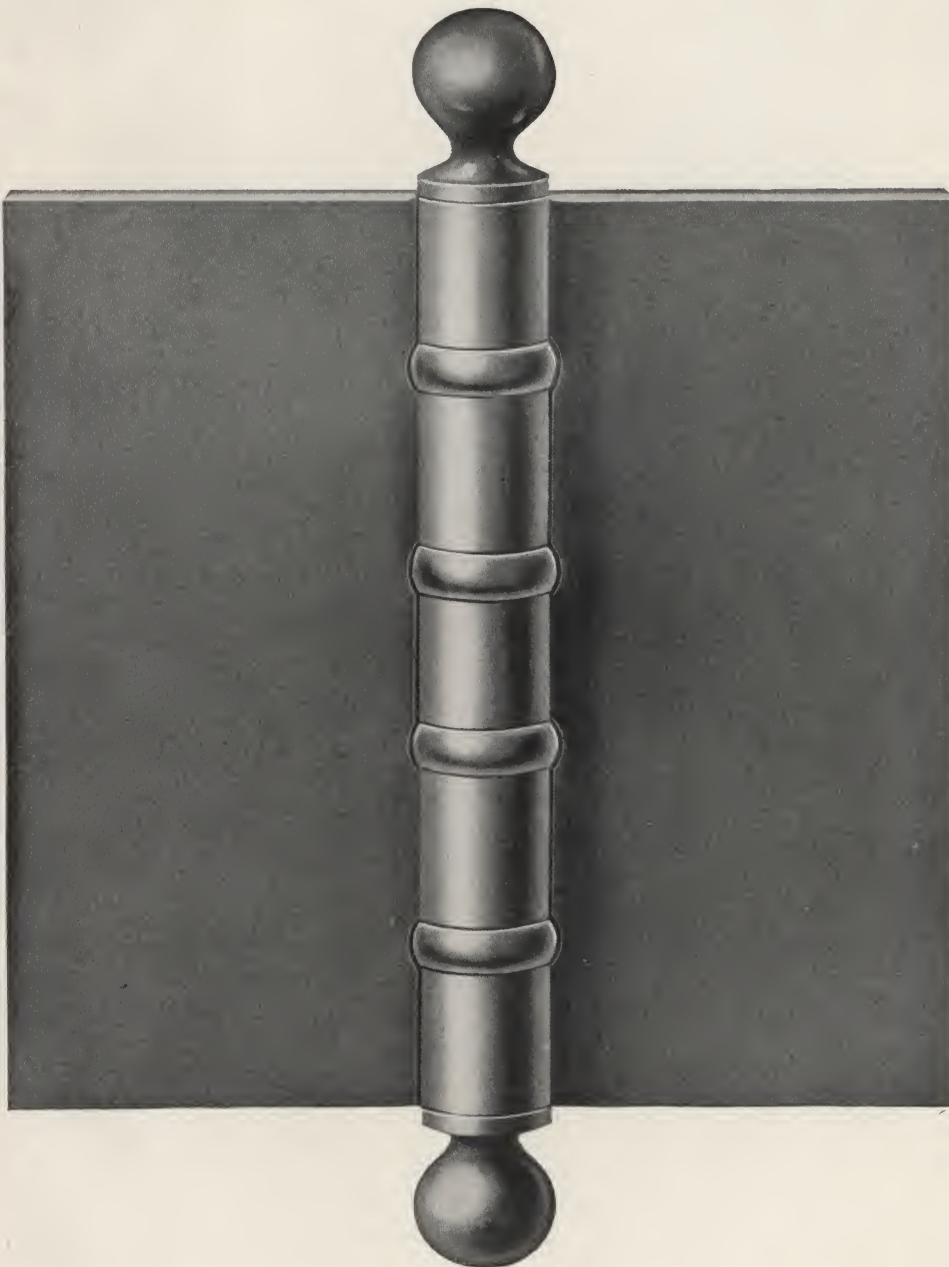
(Above) Channel trimmed with Moulding No. 4495
Striking bar Moulding No. 4120
Plaster stop Moulding No. 4121
Hinged glass frame Mouldings Nos. 4460 and 4450
Grille frame Channel No. 4732

Details shown are ONE-HALF actual size.

For further details about door construction, see Pages Nos. 44, 54, 64, 65 and 101.

Extra Heavy Plain Steel Ball Bearing Butts

(Blank—without screw holes)



Each Butt equipped with four Bronze ball bearing washers, which prevent the Butts from wearing at the joints and insure that doors will operate easily and without noise.

Carried in stock blank—without screw holes in sizes as follows:

EXTRA HEAVY

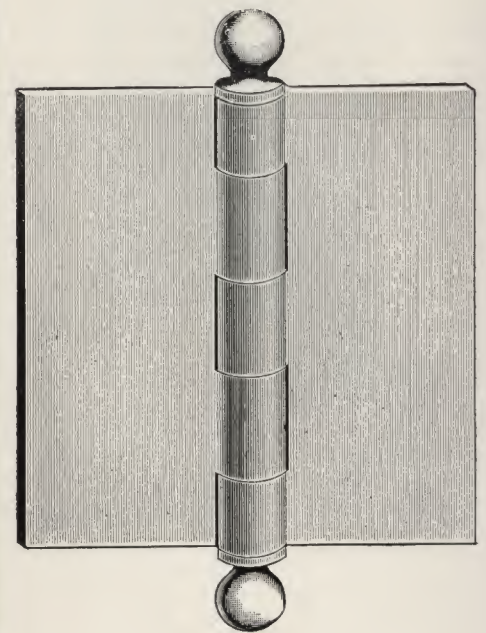
8"	x	8"
6"	x	6"
5"	x	5"
4 1/2"	x	4 1/2"
4"	x	4"

MEDIUM

6"	x	6"
6"	x	5"

Wrought Steel Loose Pin Butts

With Ball Tips



Carried in stock blank—without screw holes in sizes as follows:

2"	x	2"
2 1/2"	x	2 1/2"
3"	x	3"
3 1/2"	x	3 1/2"
4"	x	4"



WROUGHT STEEL FLUSH BOLTS

Carried in stock in lengths of 6" and 9".

Bolt has 1" throw, is 3/8" square and has 1 3/8" lip extension. Front plate 1" wide.



"JULBLUM" FOURWAY LOCK
(With Latch Only)

"JULBLUM" FOURWAY LOCK is completely reversible for right hand or left hand doors, opening in or out.

This lock is hand made, wrought brass construction throughout, no castings being used. Main spring brass.

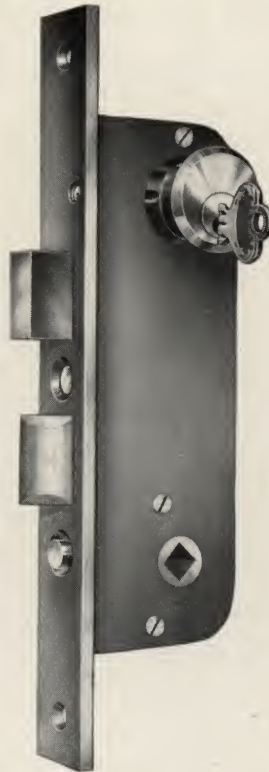
Carried in stock in two sizes:

1 $\frac{1}{16}$ " Backset, overall depth 1 $\frac{29}{32}$ "

1 $\frac{9}{16}$ " Backset, overall depth 2 $\frac{9}{16}$ "

With latch only (without dead bolt). The lock may be "set" so that it cannot be opened from the outside.

Case threaded on both sides for standard cylinder.



TYPE "T" LOCK
(With Latch and Dead Bolt)

TYPE "T" LOCK is completely reversible for right hand or left hand doors, opening in or out and is carried in stock in two sizes:

1 $\frac{1}{16}$ " Backset, overall depth 1 $\frac{29}{32}$ "

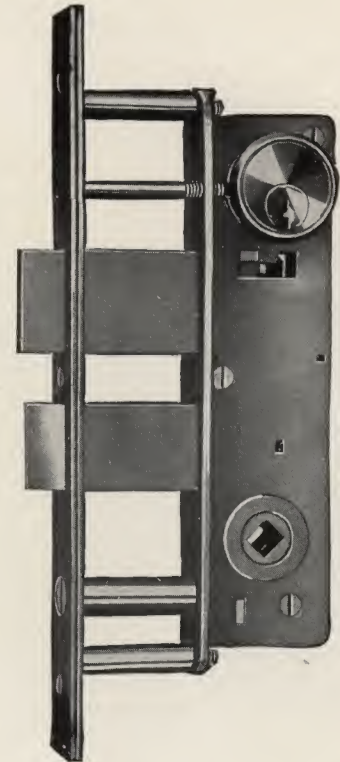
1 $\frac{9}{16}$ " Backset, overall depth 2 $\frac{9}{16}$ "

The lock may be "set" by buttons so that it cannot be opened from the outside.

Case threaded on both sides to fit standard cylinders.

Operated by Thumb Knob on inside.

This lock is hand made, wrought brass construction throughout, no castings being used. Main spring brass.



LOCK No. 101
(With Latch and Dead Bolt)

LOCK No. 101 is not reversible. Must be ordered right or left hand.

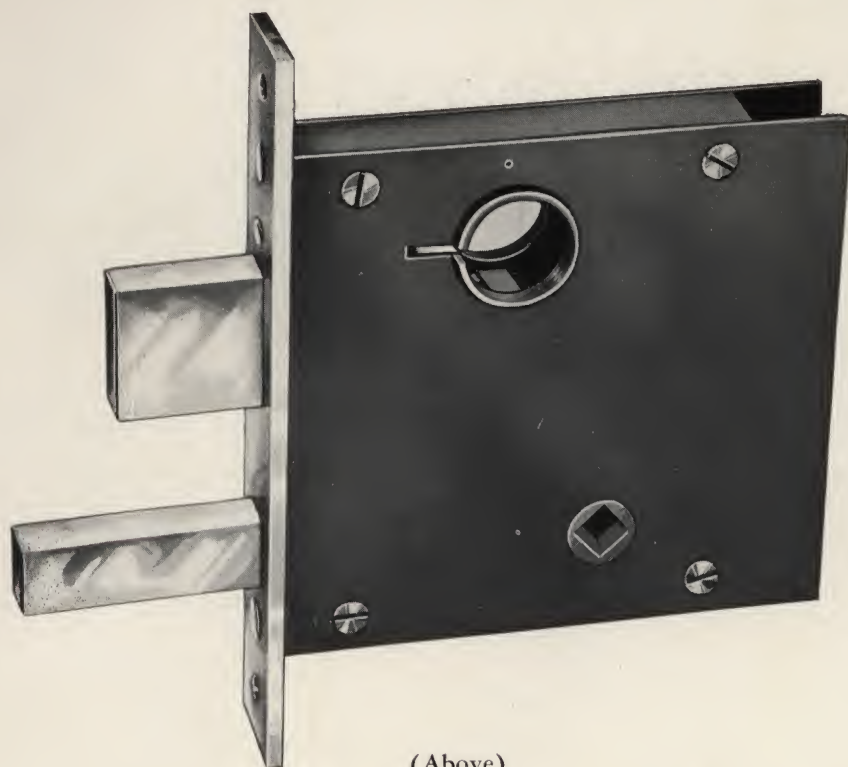
LOCK No. 101 is hand made. Wrought steel interior parts and case. The backset is adjustable from 1" to 2 $\frac{3}{4}$ ". The stulp or front plate is spaced from the case by means of pins, covered by tubes, thus making it possible, by cutting down the pins, to regulate backset and length of latch and bolt. The Bronze front cover of the stulp is removable. Extra heavy French type coil spring.

The lock is "set" (so that it cannot be opened from the outside) by inserting the bow of the key into a slot in the front plate.

Case threaded both sides for standard cylinder.

Operated by Thumb Knob on inside.

CYLINDERS with standard thread carried in stock 1" or 1 $\frac{1}{4}$ " long. Each Cylinder furnished with 3 Keys.



TYPE "Q" LOCK

With dead bolt only
(no latch)

This lock is hand made, wrought brass construction throughout, no castings being used.

1½" Backset, overall depth 2½"

Threaded on both sides for standard cylinder.

Operated by Thumb Knob on inside.

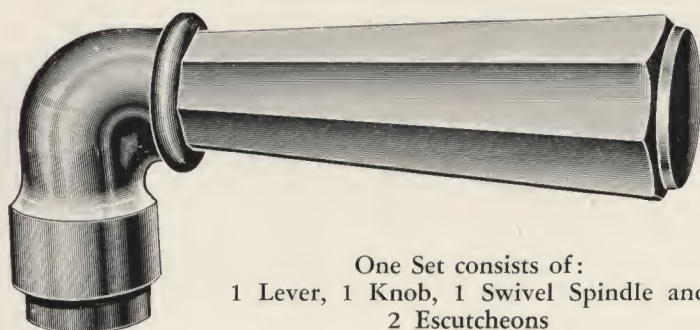
(Above)

GATE LOCK (with Latch and Dead Bolt)

Gate Lock is reversible for right or left hand openings. Case threaded both sides for standard cylinder.

Bolt projects 2¼". Latch projects 2½". Opening in back for square bar.

Octagon Pattern Door Handles



One Set consists of:
1 Lever, 1 Knob, 1 Swivel Spindle and
2 Escutcheons



Carried in stock in POLISHED BRONZE and DULL BLACK malleable iron.

May be used for right hand or left hand openings

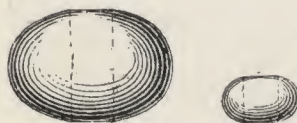
Ornamental Balls (with Drilled Holes)

ROUND BALLS



No.	Size
00000	—1½" dia.
0000	—1⅜" dia.
000	—1¼" dia.
00	—1⅛" dia.
0	—1" dia.
1	—7⁄8" dia.
2	—¾" dia.
3	—⅝" dia.
4	—½" dia.
5	—⅜" dia.
41	—5⁄16" dia.
42	—¼" dia.

OVAL BALLS



No.	Size
111	— 1" x ⅝"
110	— 7⁄8" x 9⁄16"
109	— ¾" x 7⁄16"
108	— ⅝" x 7⁄16"
107	— ½" x 5⁄16"
106	— ⅜" x ¼"

OVAL BALLS WITH SHOULDER



No.	Size
70	—1" x ⅝"
71	—¾" x ½"

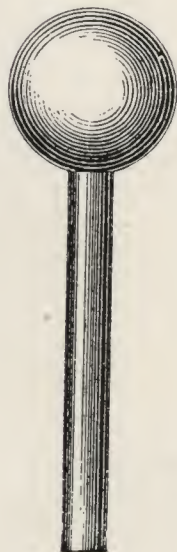
HALF ROUND BALLS



No.	Size
26	—1"
27	—7⁄8"
28	—¾"
13	—⅝"
14	—9⁄16"
15	—½"
16	—7⁄16"

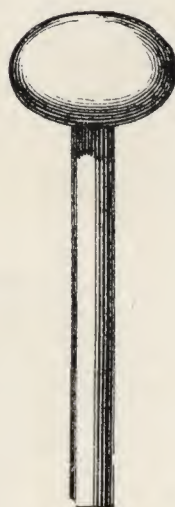
Ornamental Rivets

ROUND



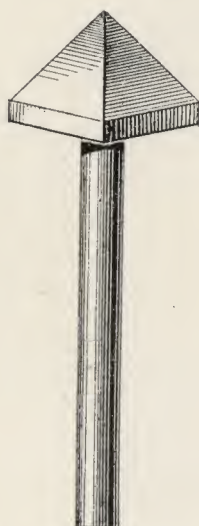
No.	Size
00000	—1½" dia.
0000	—1⅜" dia.
000	—1¼" dia.
00	—1⅛" dia.
0	—1" dia.
1	—7⁄8" dia.
2	—¾" dia.
3	—⅝" dia.
4	—½" dia.
5	—⅜" dia.
41	—5⁄16" dia.
42	—¼" dia.

OVAL



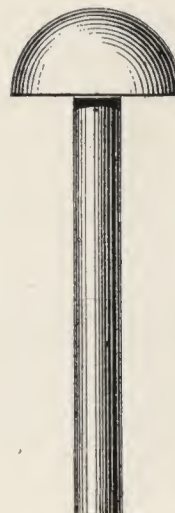
No.	Size
111	— 1" x ⅝"
110	— 7⁄8" x 9⁄16"
109	— ¾" x 7⁄16"
108	— ⅝" x 7⁄16"
107	— ½" x 5⁄16"
106	— ⅜" x ¼"

PYRAMID



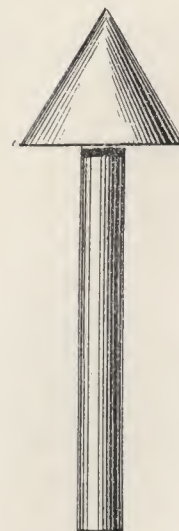
No.	Size
18	—1"
19	—¾"
20	—⅝"
21	—½"

HALF ROUND



No.	Size
26	—1"
27	—7⁄8"
28	—¾"
13	—⅝"
15	—½"
16	—7⁄16"

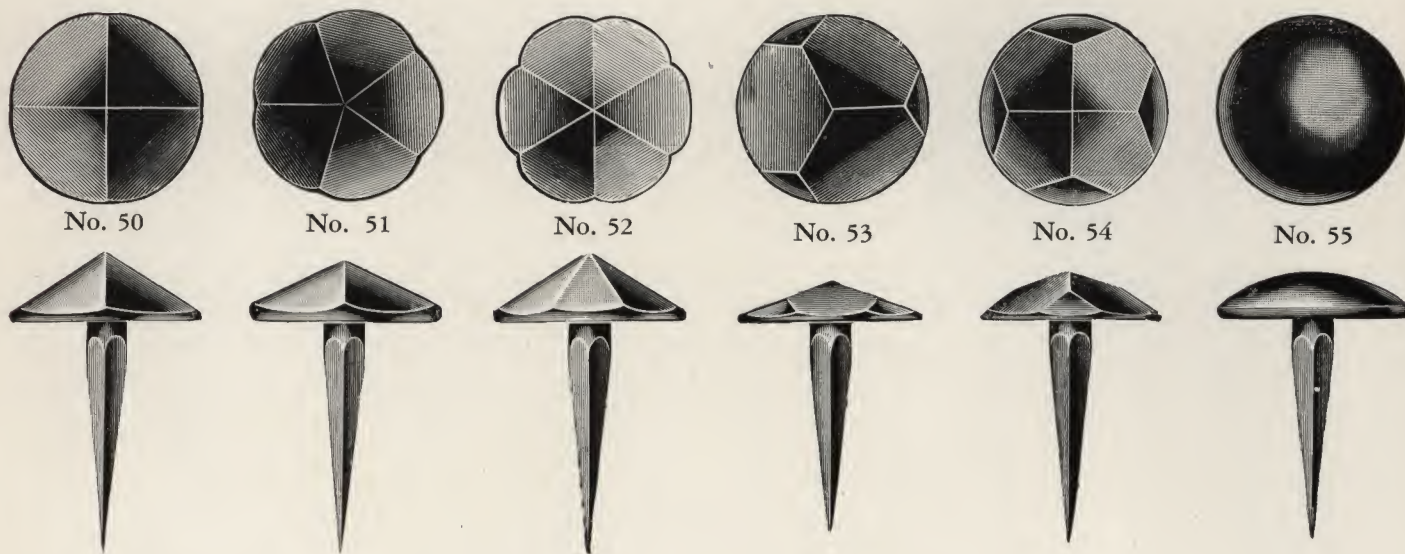
CONE



No.	Size
29	—1"
30	—7⁄8"
10	—9⁄16"

Forged Wrought Iron Ornamental Nails

WE CARRY IN STOCK: (Illustrations Show Top and Side View)



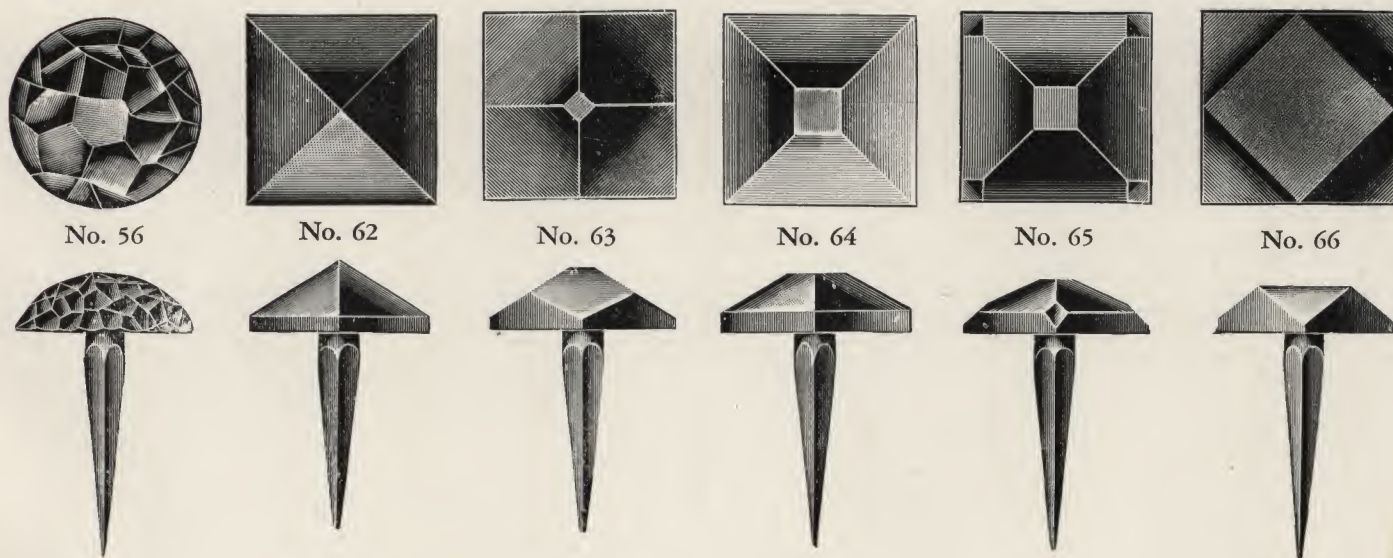
All Numbers are Carried in Stock in Sizes:

$\frac{3}{8}$ " $\frac{1}{2}$ " $\frac{5}{8}$ " $\frac{3}{4}$ " $\frac{7}{8}$ " 1" $1\frac{1}{8}$ " $1\frac{3}{16}$ "

The length of the point, depending on size of the head, ranges from $\frac{3}{4}$ " to $1\frac{3}{8}$ "

ILLUSTRATIONS ARE NOT ACTUAL SIZE

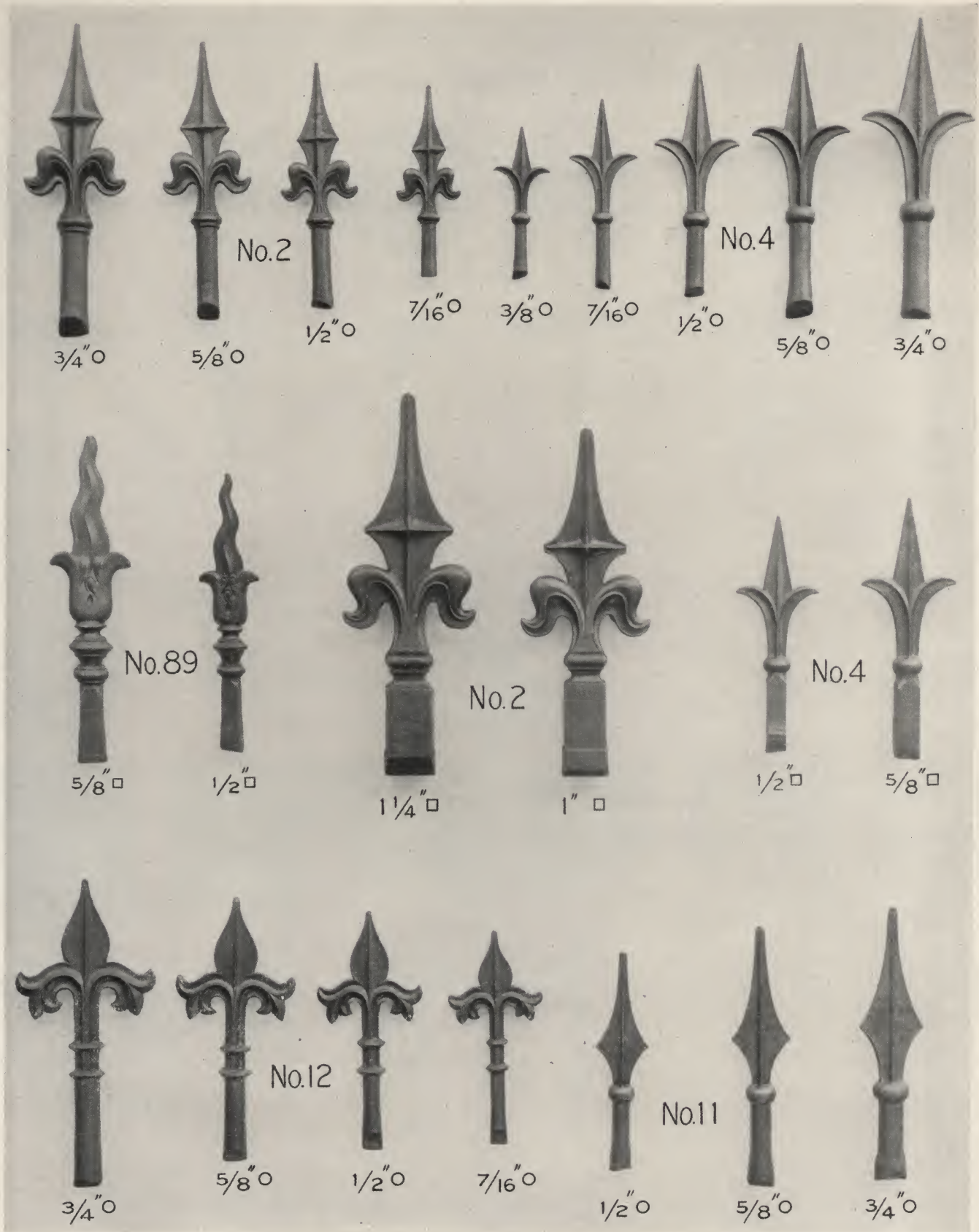
When ordering please state number and size wanted



FORGED WROUGHT IRON NAILS are furnished with natural hand hammered finish. They may be used advantageously for studding Church Doors, Wooden Chests, Furniture, floors, trim, hinge bands and other hardware.

FORGED WROUGHT IRON NAILS are also used for other decorative purposes such as forming rosettes in corners or panels, for fancy rivets on lighting fixtures, mirrors, tables, chairs, fireplaces, display fixtures, etc.

Forged Wrought Iron Pickets and Finials

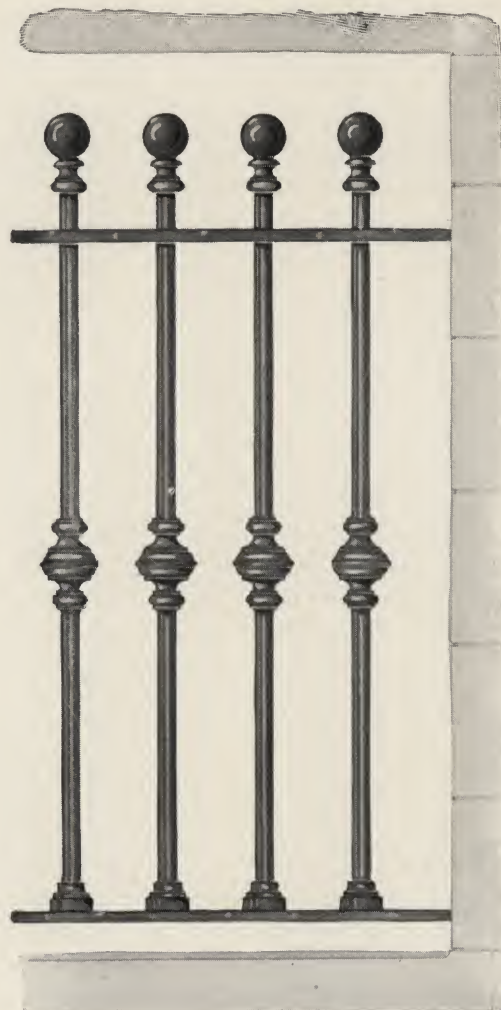
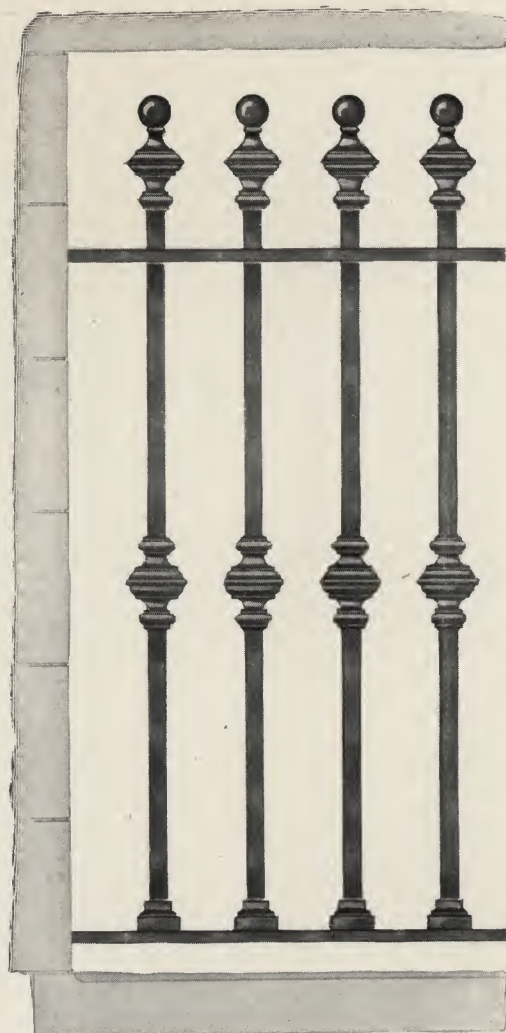


Illustrations shown are ONE-QUARTER actual size.

Forged Wrought Iron Pickets and Finials



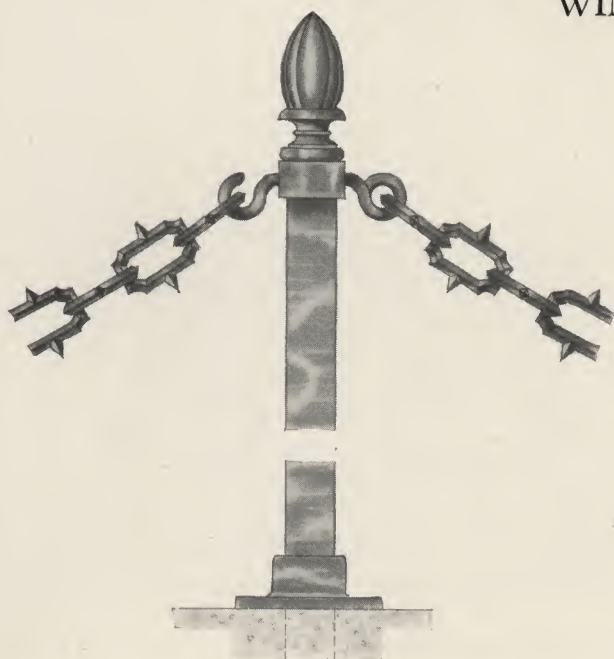
Illustrations shown are ONE-QUARTER actual size



WINDOW GUARDS

Specification: Frame: Flat Bars.

Spindles: Square or Round Bars with Forged Pickets No. 87 or No. 88 in center. Cast Iron Collars Type "E" on bottom. Forged Pickets No. 86 or No. 59 on top.



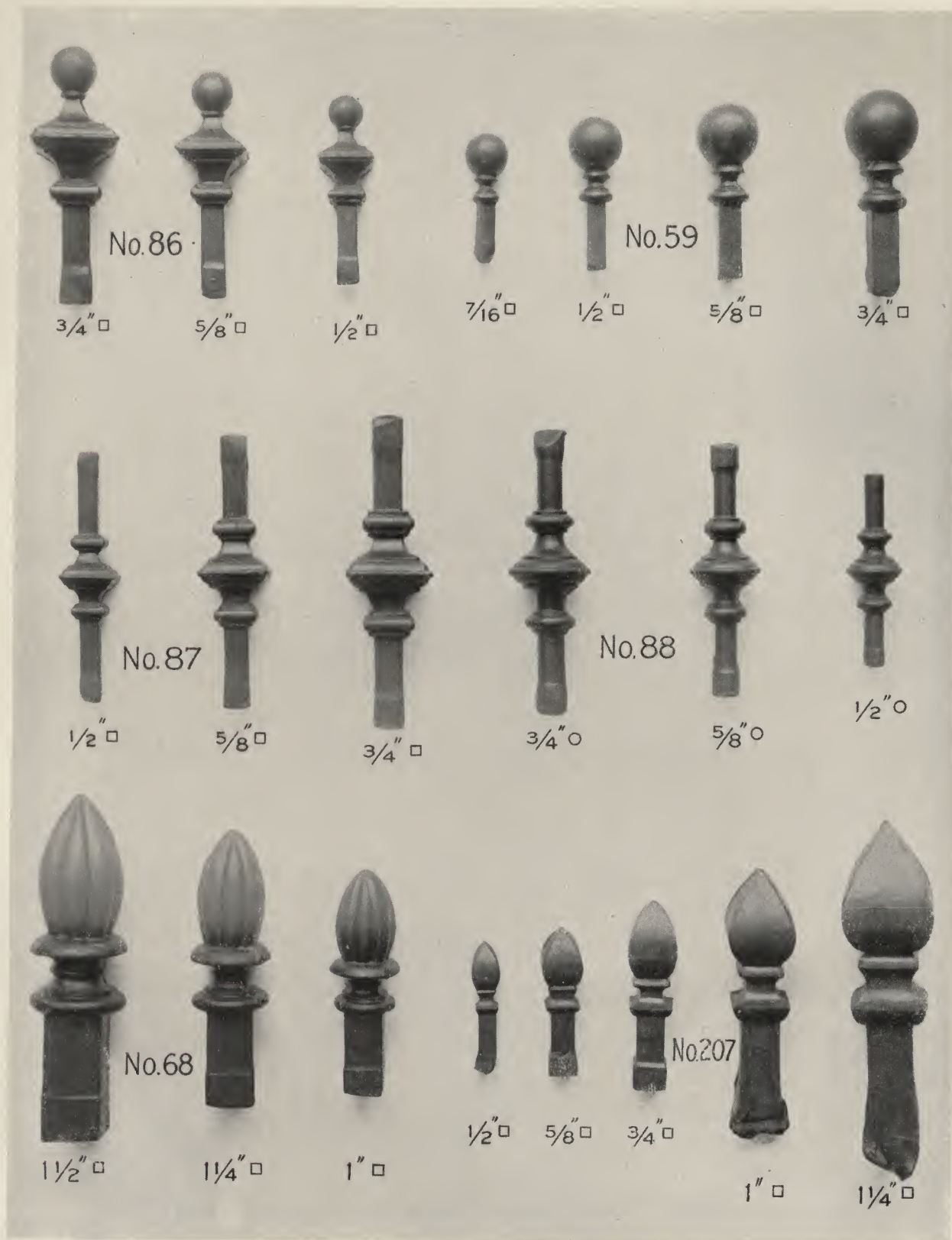
POST WITH CHAIN

Forged Ornamental Chain Links, open or closed, are carried in stock in two sizes as shown on Page No. 109. Construction of this type may be used for cemetery or mausoleum work, monuments, public buildings, parks, marquee chains, etc.

Specification: Post: Square Steel Tubing with Forged Finial No. 68 as shown on Page No. 111.

Chain: Forged Ornamental Chain Links as shown on Page No. 109.

Forged Wrought Iron Pickets and Finials



Illustrations shown are ONE-QUARTER actual size.



Forged and Pressed Ornaments

We carry in stock a large variety of Rosettes, Leaves, Cups, Husks, Candle Pans, Shields, Heads, Corners, Flowers, Wreaths, Gallery Mouldings, Crestings, etc.

On account of the large variety, shape and size of these ornaments, it is not practicable to show them in an adequate manner in catalogue form.

We would thank our customers to forward with each inquiry a full size drawing of the work piece. We shall be pleased to pick out the most suitable ornaments, and submit samples for approval.

Genuine Swedish Charcoal Lancashire Wrought Iron

The characteristics of GENUINE SWEDISH CHARCOAL IRON are its extremely fibrous nature, tremendous toughness, great elongation, combined with tensile strength and resistance to rust and corrosion.

GENUINE SWEDISH CHARCOAL IRON is an exceedingly pure iron which does not crystallize or become "fatigued." It welds more easily than any other iron. It is the ideal material for artistic forging and forming.

Can be furnished from stock in a large range of sizes.

FLATS — ROUNDS — SQUARES

"JULBLUM" Iron Cement in Powder Form

For filling in sand holes or other defects in castings or for making tight joints in ornamental iron work. For filling up countersunk rivet or screw heads. For making tight pipe joints, etc.

This cement is mixed with water to form a putty, which is firmly pressed into the defective place, or into the joint to make an even surface. After hardening, the cement can be treated just like iron and may be filed, ground on a wheel, or polished.

Looks like iron. Expansion and contraction same as cast iron. Unchanged by time.

"JULBLUM" Genuine Cut Soapstone Sticks

(Marking Crayons)

We carry in stock a good grade of genuine cut soapstone sticks in sizes:

$\frac{1}{4}$ " square x 5" long.
 $\frac{1}{2}$ " x $\frac{3}{16}$ " flat x 5" long.

Packed 144 sticks per box.

